

INTERNAL USE ONLY

DAIKIN



Service Manual

SIEMENS CONTROLLER SOFTWARE UPDATE MANUAL

MICROTECH CONTROLLER

DAIKIN APPLIED EUROPE S.p.A.

Società unipersonale soggetta ad attività di direzione e coordinamento di Daikin Industries Ltd

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2 SCOPE AND APPLICATION

The following information are intended only as a guide for authorized Daikin personnel with a sound basic knowledge of HVAC equipment, mechanical systems, electrical wiring, controls, & microprocessors.

Attempts by untrained or unauthorized persons to start, operate and service this equipment can result in equipment failure, personal injury, or death, as well as invalidation of product warranty. It is the responsibility of the technician to ensure that proper safety equipment safe practices are used.

This document explains how to update software on SIEMENS controller POL 687, POL 638, POL 688, POL 468 of any Daikin Applied Europe manufactured chiller, heat pump or AHU.

3 DAE SOFTWARE REPOSITORY

All Official Software can be downloaded from the Official Software Repository which can be reached at the following link: <u>DAE Software Repository</u>

Within the collection, the software's are provided in zip file, divided by unit name and related software name.

DAIKIN SharePoint		Q	Search this collection
DS DAE Software Repository Home Official Service Packs Simulate	or Modification		
+ New ~	G Synchronize	Add to Quick Access	\blacksquare Export \lor \mathcal{P}°_{0} Automates \lor \square Integrates \lor \cdots
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□ Name ∨	Software Name $ imes $	Modification da \vee	Modified by $ \lor $ + Add Column $ \lor $
C Name ∨ EWAD-CF	Software Name \vee	Modification da ~ May 5, 2021	Modified by V + Add Column V Massimiliano Amadei
EWAD-CF EWAD-D EWAD-E ERAD-E EWAD-T	Software Name ~ AWS MNG	Modification da ~ May 5, 2021 August 13, 2021	Modified by V + Add Column V Massimiliano Amadei Leonardo Verucci
EWAD-CF EWAD-CF EWAD-D EWAD-E ERAD-E EWAD-T EWAD-TZ EWAH-TZ ALL SERIES	Software Name ~ AWS MNG ATLAS	Modification da ~ May 5, 2021 August 13, 2021 April 8, 2020	Modified by \checkmark + Add Column \checkmark Massimiliano Amadei Leonardo Verucci Massimiliano Amadei
Image: Name v Image: EWAD-CF Image: EWAD-D EWAD-E ERAD-E EWAD-T Image: EWAD-TZ EWAH-TZ ALL SERIES Image: EWAQ-E EWAQ-F	Software Name ~ AWS MNG ATLAS ACZ-C	Modification da > May 5, 2021 August 13, 2021 April 8, 2020 April 23, 2020	Modified by + Add Column Massimiliano Amadei

Figure 1 DAE Software Repository

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GENERAL UPDATE PROCEDURE CONCEPT

INFORMATION

Software update to latest version is not strictly required except that for the following cases:

- New controller spare part replacement
- Required by Service Support department
- Required by RNSQI, DAE Bullettin, ESV and SVI
- Latest software has solution to an on-field issue according to the improvements and bugs fixed explained in the Change in Operations

INFORMATION

The software update procedure by SD-Card is also valid for updating the BSP of the controller and extensions. New BSPs with important changes have been released, it is recommended to update the BSP to the latest version available from the Official Software Repository

For more information, read the following Service Bulletin:

- DAE SB 18-23 / RNSQI 23-52 Cybersecurity protocol update Siemens boards connected to DOS
- DAE SB 19-23 / RNSQI 23-51 New BSP Release POL 688

Generally, the software update procedure is needed when a newer software version is available with new futures that need to be implemented on the unit, or in case of controller replacement (new spare part).

Before proceeding with the software update, it is common sense to do all the preparation steps and take all the precaution necessary to avoid future issue due to of a software update failure.

The most important thing to do before proceeding, is to take notes or/and pictures of the actual software parameters. This includes all the pages as follows:

Chiller:

i

i

- Commission Unit → Configuration
- Commission Unit → Alarm Limits •
- Commission Unit → Sensors Calibration
- View/Set Circuit → Circuit ½ → Compressor → Run Hours and Start •
- View/Set Circuit \rightarrow Circuit $\frac{1}{2}$ \rightarrow Compressor \rightarrow Take note of compressor model and frequency in case of • inverter compressor.
- **BMS Settings** .
- Controller IP Settings

AHU (Modular and Professional AirStream SW):

- Commissioning →AHU Configuration →Config Unit Type
- Commissioning \rightarrow AHU Configuration \rightarrow Config Components •
- Commissioning \rightarrow AHU Configuration \rightarrow Config Function •
- Status/Settings →Temperature Control •
- Status/Settings →Fans •
- Status/Settings →Sensor Settings •
- **BMS Settings**
- **Controller IP Settings**

It is important to take note of this settings, other than the Save Parameter Procedure, to have a backup plan in case of issues due to a failed Save Parameter Procedure.

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INFORMATION

In case the restore procedure fails, all the parameters are set as default.

- Chiller: unit, circuit configuration, alarm limits, sensor calibration, compressor run hours and starts, frequency parameters are anyway possible to update manually.
- AHU: unit, components configuration, function configuration, temperature control, fans, sensor settings are anyway possible to update manually only in the Air Stream Software, to update the parameters in the D-Stream Software please contact the Service Support.

In case parameters are lost, refer to service support for correct unit configuration, attaching the unit serial number.

Once all the preparation work is done, the software update procedure is done typically in 3 steps:

- 1. Parameter Save: Controller parameters ("PARAM.UCF") are downloaded from the controller to SD/USB drive
- 2. Software Update: New software is installed on the controller
- 3. Parameter Restore: Previously saved parameters ("PARAM.UCF") are downloaded from SD/USB to the controller with new software

In the next chapters are explained all these steps one by one for each kind of controller and type of software update. In the special case when the original controller is damaged, it is impossible to save the original parameters, then a manual configuration of the software parameters is needed.

Refer to <u>servicesupport@daikinapplied.eu</u> to get the unit configuration parameters to be able to fully configure the new software manually.

To get correct unit configuration parameters send unit model and unit serial number.

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POL 688 (Microtech 4) 5

5.1 Description

INFORMATION



POL 688 Controllers equipped with mAP, do not have an integrated HMI (Figure 2C)

To perform the software update is required an external HMI, refer to POL895 External HMI



Figure 2 (A) POL688.80/STD with HMI (B) POL688.80/STD with HMI Additional interfaces on the bottom of the devices (C) POL688.10/STD without HMI



Figure 3 a) pin hole b) LED c) T-IP port d) micro-USB port e) SD Card slot

LEDs for diagnostics



LED BSP "Run / Stop": 3 colours (green, red, and orange)

Mode	LED
SW update mode (download application or firmware)	Every second alternating between red and green
Application running	Green on
Application loaded, but not running	Orange on
Application not loaded	Orange flashes: 50 ms on, 1000 ms off
Firmware error	Red blinking at 2 Hz
Hardware fault	Red on

Table A LED BSP meaning

LED BUS: 3 colours (green, red and orange)

This LED only indicates the status of modem communication.

Mode	LED
No modem connected, or LED disabled	Off
Modem connected and initialized no communication active	Orange on
Modem connected and communication active	Green on
Modem connected but errors active (like provider missing, no initialization possible)	Red on

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Table B LED BUS meaning

5.1.1 POL895 External HMI

New POL688 Microtech 4 controllers does not have an integrated HMI. The interaction with the controller can be done using a mobile app that can be download from the store (Playstore for Android devices and Apple Store for iOS devices).





Figure 1 Blank POL688

Optionally is possible to order the Remote HMI POL895 (P.n 10000110036)

As an option the external Remote HMI can be connected to the UC and offers the same features as the inbuilt display plus the alarm indication done with a light emitting diode located below the bell button.

All viewing and setpoint adjustments available on the unit controller are available on the remote panel. Navigation is identical to the unit controller as described in this manual.



Figure 2 POL895 HMI

a) How to connect the POL895 External HMI

The POL895 External HMI can be connected to the available CE+ CE- port on the POL688 controller located in the bottom connectors row of the controller





Figure 3 POL895 and POL688 ports

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- a) Open the back side of the POL895
- b) Connect the CE+/CE- ports on the External HMI to the CE+/CE- ports on the POL688
- Power the POL895 by connecting the 24V on the +24V / GND ports (it is possible to use the POL688 power supply)



Figure 4 Back side of POL895

d) Close the back side of the POL895

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5.1.2 SD-Card specifications

- All SD Cards are supported and some SDHC cards
- Fast speed SD Cards are supported (class 2)
- Supported File system: FAT16 and FAT32
- Cards up to 2Gbyte are fully supported

a) How to check if SD supported

Not all the software has this option, but most software will allow to check the compatibility of the SD card with the controller by following this procedure:

- 1. Insert the service Password
- 2. Go to the Save/Restore menu



INFORMATION

Save/Restore Menu Location

- Chillers Software: → Main Menu
- AHU Modular and Professional AirStream Software: Commissioning →Config Save/Load
- AHU Professional D-Stream Software: Commissioning → Save/Load
- 3. Insert the SD card in the dedicated slot.





Figure 5 Controller dedicated SD card slot

• If the SD Card status shows ReadWrite then the SD Card is supported

1	Save/Restore		•	
	SD Card	ReadWrite		*
	Software Update	Idle	₽	
	Save Parameter	No	•	
	Status	Idle		
	Restore Parameter	No	•	
	Status	Idle		
	Save Memory	No	•	
	Reset Defualt	No	•	-

Figure 6 Compatible SD card message

If the SD Card status shows NoCard then the SD Card is NOT supported

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1	Save/Restore		•	
	SD Card	NoCard		^
	Software Update	Idle	Þ	
	Save Parameter	No	۰Þ.	
	Status	Idle		
	Restore Parameter	No	Þ	
	Status	Idle		
	Save Memory	No	۰Þ.	
	Reset Defualt	No	•	*

Figure 7 Not compatible SD card message

 If the SD Card Status is not shown, means that the software does not have the option to control the SD Card compatibility.



INFORMATION

Some software doesn't have the "SD Card" string in Save/Restore menu

4. Pin of 2 mm diameter.



Figure 8 SD cards and 2 mm diameter pin

5.2 Update by SD-Card



INFORMATION

The BSP update can only be performed using the SD Card method. When updating the BSP, the SD card must also contain the software files, otherwise the controller will erase.

a) SD-Card Save Parameters Procedure

1. Insert the SD card into the controller card slot



Figure 9 Controller dedicated SD card slot

2. Use the "Save Parameter" functionality to download PARAM.UCF file from controller to SD Card

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INFORMATION

Depending on the software version, the string of "Save Parameter" functionality can be different. Refer to the table in paragraph *8.Save/Restore menu string table* to use the correct string. Possible strings are:

- Save Parameter
- Save Params
- Save to File
- Save to SD





 $\bigcirc \Diamond$



64

Save Params=

Rstr Params=

INFORMATION

ESC (

No 🕨

No

Parameter files are now written to the SD card. Two PARAM files one in "UCF" and one in "BIN" format are stored on the SD card. Copy and save these files into a new directory in the PC

b) SD-Card Software Update Procedure

1. Upload all unzipped files of the software to the root of the formatted SD card.



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SDHC (D:)				Y	U	,p	Cerca in SDHC (D;)
ATLAS_3.09.B_Code_687.ucf	30/09/2021 09:18	File UCF	429 KB				
ATLAS_3.09.B_HMI.ucf	30/09/2021 09:06	File UCF	145 KB				
ATLAS_3.09.B_OBH_687.ucf	31/03/2021 17:06	File UCF	58 KB				
ATLAS_3.09.B_Scope.ucf	23/12/2020 17:22	File UCF	30 KB				
ATLAS_3.09.B_Web.ucf	30/09/2021 09:06	File UCF	376 KB				
POL687_BSP_V1036.UCF	13/04/2017 10:30	File UCF	3.043 KB				

Figure 11 Example of software unzipped in the root of the SD card

2. Insert SD-Card in the Controller dedicated SD card slot with controller "On"



Figure 12 Controller dedicated SD card slot

- 3. Turn off power to the controller.
- 4. Insert the pin in the dedicated slot and gently push the internal reset button



Figure 13 Controller dedicated pin slot

5. Keep the button pushed with the pin and give power to the controller.



INFORMATION During this phase BSP led blinks green

6. When the BSP led starts blinking red and green stop pushing the pin.

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Figure 14 BSP Led flashes red and green during software upload

7. When BSP led is fixed orange, immediately remove the power from controller.



Figure 15 BSP Led becomes orange when software upload is completed

8. Give power to the controller



WARNING

(*) At the first start of the controller after the software update, if there is installed any communication board (Modbus, Bacnet, etc...), it is very important to wait an automatic uploading of the communication board too. The communication board software update will start automatically once the controller has started and main board will be restarted when the update is completed.

- We strongly suggest repeating the upload procedure (point 2 till 7) twice to guarantee a complete software 9. upload
- 10. Once the software upload is complete and the controller restarted, check in the About Chiller menu that the actual software version corresponds to the one just installed. In case the software version does not correspond, check that you have the correct software version for the controller copied on the SD card and repeat point 2 till 7.

About Chille	er	
Unit Serial	Number	
Enter Data		
Software	ATLAS	
	3.09.B	
BSP	10.36	

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Figure 16 About Chiller menu

c) SD-Card Restore Parameters

It's possible to perform a copy of the old parameter settings using the Restore Parameter function as following

- 1. On an empty SD card, copy the files PARAM.UCF and PARAM.BIN
- 2. Insert the SD card into the controller card slot.
- 3. Insert technician password
- 4. Go to Save/Restore menu
- If the SD Card appears in the menu, check that the SD Card status shows ReadWrite otherwise check that the SD is well inserted or replace the SD card. If the SD Card is not shown, then the software does not have the SD Card compatibility test function. In this case just go to step 12.
 Use the "Restore parameter" functionality to download the PARAM.UCF file from SD Card to controller
 - Use the "Restore parameter" functionality to download the PARAM.UCF file from SD Card to controller



INFORMATION

Depending on software version, the string of "Restore Parameter" functionality can be different. Refer to table in the appendix to use the correct string. Possible strings are:

- Rstr from file
- Rstr from SD
- Restore Parameters
- Load from SD

L	Save/Restore			1	Save/Restore		
	SD Card	ReadWrite			SD Card	ReadWrite	
	Software Update	Idle		No	Software Update	Idle	
	Save Parameter	No	Ē	Partial	Save Parameter	No	
	Status	Idle		FULL	Status	Idle	
	Restore Parameter	No	J.		Restore Parameter	No	
	Status	Idle	÷		Status	Pass	
	Save Memory	No			Save Memory	No	
	Reset Defualt	No	-		Reset Defualt	No	



Figure 17 Save/Restore menu may be different, it depends on the software version

- a) The restore parameter function is successful if the Status changes from Idle to Pass.
- b) If the status Fail pops out repeat the step 6.
- 7. Recycle the controller by removing the power supply or select "Apply changes" to restore actively the parameters, for the AHU select "restart required" in Save/Load Menu.
- 8. Since the parameter update is done in 2 stages, it is necessary to repeat the Parameter Restore procedure (from point 2 till point 7) 3 times to guarantee a complete upload of the parameters

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In case the restore procedure fails, all the parameters are set as default. So, unit, circuit configuration, alarm limits, sensor calibration, compressor run hours and starts, frequency parameters are anyway possible to update manually. In case parameters are lost, refer to service support for correct unit configuration.



CAUTION

To double check the parameters already copied, verify each setting according to the Manual Configuration procedure

5.3 Update by Scope Light

a) Scope Light Application

a) Open the Climatix Scope Light application on your PC.



Figure 18 Climatix Scope Light Application

b) If the protocol window appears, just close this window by clicking on the X mark on the top right corner

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DefaultLight - Climatix	SCOPE (Light)								3 X
Menu - 🔂 🗋	2 m ce E	🛛 🗐 🏺 Connect	Serial						
Settings S Sta	ntup								4 P 🗙
34		14							
SIEMI	ENS	Copen Project							
		Create Project	t	Protocol				12	
(And and and and and and and and and and a	-	1.1.1							
A	Rip.	Recent Project	8	Date Date	Level	Information	Logger		
				8 2022-03-31 14:21:23.95	1 Info	Application State changed	Project		
11/1/0/				2022-03-31 14:21:34.02	1 Info	Application State changed	Project		
				2022-03-31 14:21:44.03	18 Info	Application State changed	Project	N N	
	\sim			g 2022-03-31 14:21:54.07	ohi 0	Application State changed	Project		
				2022-03-31 14:23:08.72	0 Info	Connection State is reset, i	Project	Close Protocol	
				2022-03-31 14 23:08,73	8 Warning	connection resets	Project	Window	
				2022-03-31 14:23:17,63	7 Info	Connection State is establis	Project	V WINDOW /	
				2022-03-31 14:23:17,64	8 Info	Connection established.	Project.		
				2022-03-31 14-23:17,68	2 Info	Application State changed	Project		
				2022-03-31 14:23:51,73	1 Info	Application State changed	Project		
	1 1			2022-03-31 14:24:11,73	3 Info	Application State changed	Project		
				2022-03-31 14:24:19,71	8 Info	Connection State is reset, i	Project		
				2022-03-31 14:24:19,72	5 Wanng	connection resets	Project		
				2022-03-31 14:24:40,70	0 Info	Connection State is no con	Project		
				2022-03-01 14:24:40.70	V Warring	reconnect failed	Project		
				2022-03-31 14:24:40,70	4 Into	Connection closed	Project		
				2022-03-31 14 24 40.72	o warring	Connection to device has b.	Project		
				2022-03-31 14:30:34.27	6 110	Project saved	Project		
	100 B			2022/03/31 14:30:34:23	in inte	Connection State is antable	Project		
Close page after project	load			2022-03-31 14:30:34,35	otra otra	Connection state is establis	Project		
Show page on startup				2022-03-31 14:30:34.37	3 Info	Convection established	Project.		
				2022-03-31 14-53-00 05	info	Project saved	Project		
Loader Control				2022-04-02 17-24-22 26	2 Info	Project saved	Project		- + X
Files RSP				2022-04-02 17 25-01 54	3 Info	Project saved	Project		4.0
1103 0.01				2022-04-02 17 25 13.47	9 Info	Project saved	Project		
Type File	1	îme	GUID	2022-04-02 17 27 52 75	6 Info	Project saved	Project		
ADA	M3064.C 3	022.01.31.08-18-00	04095244,5843,4045,4	2022-04-02 17:31:33.96	3 Info	Project saved	Project		
HMI-Cof-Comp ADA	M306AH 3	022-01-31 08-36-58	R5484203-A30R-4132-A	2022-04-02 17:41:53.71	0 Info	Project saved	Project.		
Mapping-Comp ADA	M 3 06 A 0. 2	022-01-31 08:43:32	F0042C42-DC63-4A14-9	2022-04-02 17:45:20.92	6 Info	Project saved	Project		
HMI4Web ADA	M 3.06.A 2	022-01-31 08:37:06	6E1CFF5D-2DAC-4C68-					~	
BACnet Client BAC	net.cav								
Ught-VersionADA	M 3.06 A S. 2	021-09-30 08:00:10	4B158C82-D47B-4075-9						
1.55.05.0000000000000000000000000000000	19110) (19 7 2) (195								
The second se	Present .								
(Links)	1001200								

Figure 19 main window in scope light

b) Siemens POL 688 Controller to PC connection



INFORMATION

In this paragraph, scope light controller connection with USB to Micro-USB cable is explained. For Ethernet cable connection refer to Paragraph 7. Scope Light – connection by ethernet cable

a) Go to the Settings Tab:

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Figure 20 Settings Window

- b) From the Target dropdown window select POL 6x8
- c) From the Interface dropdown window select USB



INFORMATION

In this menu it can be selected the type of connection is intended to use; in this tutorial the USB connection is explained.



Figure 21 USB to Micro-USB

d) Click on the Save All Tabs to save the current settings.

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🖁 Menu 🗸 🛐 🗋 🥻 🤊 (*) 🔚	☐ Connect ▼ POL688_EE49A8 ▼ USB
Settings Startup	
Communication	Current Language
Target: POL6x8	Application
Interface: USB	Engineeting Unit Support
IISB	enable v (d) Saves all tabs
055	Export Cache Files
Device: POL688_EE49A8	Export
Auth:	b) Select POL 638
	c) Select USB

Figure 22 Communication settings

e) Connect the USB - RJ45 cable from the PC to the Siemens Controller





INFORMATION

Once the cable is connected, automatically the Siemens controller drivers are installed on the PC. This operation usually takes just a couple of seconds. When driver installation is done, the POL688 device becomes available in the Device dropdown menu.

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- f) Select POL688 from the Device dropdown menu
- g) Insert Auth Password : "SBTAdmin!"

S DefaultLight - Climatix SCOPE Light (Light)									
🎢 Menu 👻 🛐 🗋 🎉 🦃 🍽 🔚 🔛 🚺 Connect 🗧 POL688_EE49A8 🔹 USB									
Settings									
Communication	/		Current Language						
Target: PC	DL6x8	\sim	Application	~					
Interface: US	^B (h) Click Connect	\sim	Engineering Unit Sup	port					
USB			enable	\sim					
			Export Cache Files						
Device:	POL688_EE49A8 ~		Export						
Auth:		\frown							
		7	g) Select POL	588					
		(f	from the Dropo	lown)					
		$- \langle$	Menu						

Figure 24 Connection Settings

Settings	
Communication	Current Language
Target: POL6x8	✓ Application ✓
Interface: USB	 Engineering Unit Support
USB	enable \checkmark
Device: POL688_EE49A8 ~ Auth:	Export Cache Files Export
INSERT AUTH PASSWORD	Please enter your PIN

Figure 25 Pin = Daikin Service Password

- h) Click on the Connect Button
- i) Put the Daikin Service Password when asked for the PIN

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19



INFORMATION i

On board controller: when connecting controller, parameters are read by Scope Light. Before proceeding with any action on Scope Light, the parameter reading process must be completed.

Reading object: 0x2201 'U\EstopSwAI'.	
🕵 Browser 🔼 Alarm 🕕 Protocol 📠 Loader	

Figure 26 Scope reading parameters

c) Scope Parameters Save procedure

a) On the project page, click on the Parameter Up – and Download then click on the Target -> PC button

S DefaultLight - Climatix SCOPE Light (Light)								- 0	×
👬 Menu 🕶 💽 🗋 🎉 🤟 🔍 🔒 🛄	Disconnect • P	OL688_EE49A8 USB							
Project - 4	Settings	🔥 Config Project 🦯	💈 Parameter I	Load*					4 Þ 🗙
Triget Defaultight Settings Configuration Project Foot Note Target Dagnostics Data Points Parameter Up-and Download Watch Pages Schedulens Calendars Trend Online Archive	Parameter Loading Perameter Loading Restore Selection	th mandatory members notes with all members from type: Scheduler Life bjects File Parameter-POL	PC>T	arget	Start Pa	rameter Do	ownload	Target ->	PC
Protocol						name			• • ×
Date Level Informa	tion	Logger							^
© 2022-07-11 09:19:43,969 Info Project	saved	Project							
2022-07-11 09:19:44,075 Info Project	saved	Project							
2022-07-11 09:19:44,845 Info Connec	ction State is establis	Project							
g 2022-07-11 09:19:44,909 Info Connec	ction established.	Project							
2022-07-11 03:15:45,014 Into Applica	tion state changed	Project							
2022-07-11 03:20:03:043 into Project	saved	Project							
2022-07-11 09:20:09:139 Info Connec	ction State is no con	Project							
Alarm () Protocol Coader									

Figure 27 Parameter Up - and Download

b) A new file will appear on the window below and it is possible to choose the name of this file. Confirm the name by pressing enter on the PC Keyboard and the parameter download procedure starts. The procedure is completed when the progress bar goes to 100%

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S DefaultLight - Climatix SCOPE Light (Light)			- 0	×		
🗄 Menu 🗸 💽 🗋 🍞 (*) 🗔 🗐 🕯	Disconnect - POL	688_EE49A8 USB				
Project 🗸 🗸	Settings 🚳	Config Project 🖉 Parameter Load*	٥	1 Þ 🗙		
Project a Settings Config Project Parameter Load* Project Settings Config Project Parameter Load* Project Settings Config Project Parameter Load* Project Project Project Parameter Load* Project Parameter Load* Parameter Load* Parameter Up-and Download Only instance on confirmed with the enter buttom Coldendar Software Parameter Up-and Download Parameter Policies Parameter-Policies Parameter Policies Parameter Software Calendar Software Image Parameter-Policies Parameter Policies Parameter Policies Parameter-Policies Parameter-Policies Image Parameter-Policies Parameter Policies <t< th=""></t<>						
Protocol			•	ąΧ		
Date Level Informati	ion L	ogger		^		
S 2022-07-11 09:20:09,139 Info Connect	tion closed P	roject		- 1		
2022-07-11 09:20:09,267 Info Connect	tion State is no con P	Progress bar		- 1		
2022-07-11 05:27:57,700 Into Project s	saved P	roject		- 1		
2022-07-11 03:27:57:603 Into Project s	tion State is establis	miert		- 1		
2022-07-11 09:27:58 228 Info Connect	miect					
2022-07-11 09:27:58.307 Info Applicati	ion State changed P	roject				
2022-07-11 09:34:19,429 Info Parameter	ter 'Parameter-POL P	ara		~		
Alarm () Protocol E Loader						

Figure 28 Parameter Up - and Download

d) Scope Software upload procedure

a) Enable the Loader window by going to: Menu →View→Loader





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S DefaultLight - Climatix SCOPE Light (Light)			– 🗆 ×
i 🎢 Menu 🖌 🛐 🗋 🥻 🔊 🥙 🔚 🗐	Disconnect - POL688_EE49A8 USB		
Project 👻 👎	Settings		4 Þ 🗙
	Communication Target: POL6x8 Interface: USB	Current Language Application	
Foot Note	USB	enable ~ Export Cache Files	Software files window
Cata Points Cata Points Comment Up- and Download Watch Pages Schedules Catendars Trend V	Aut: Loader Control	Land	
Loader Control			- + ×
Files BSP Auto Upgrade	\sim		4 Þ
Type File Application MBRTCode.ucf IMMI-Grit-Comp OBH/Witcomp ucf IMMI-Web HMI4Web ucf B&CnetCollent BACchect cov Light-Version ScopeConfig.ucf	Tme GUD T	arget GUID 4902454-0249-4605-9C9C-FE22883D508B 32C478F-DF9B-4914-A132-82DAF2E1684B 552E158-2573-4F77-8BF1-91DC88E53180 DE91A79-4D0E-4CD3-9D10-55D4239CAEFD	Message
Load Cancel			***************************************

Figure 30 Loader Window

- b) Double click on the first raw in the Loader Window The Browse window will appear
- c) Copy the output folder address to be able to create a shortcut of this folder on the desktop. In this folder we need to copy the Software files later.

S DefaultLight - Climatix SCOPE Light (Light)		– 🗆 ×
📲 Menu 🕶 🛐 🗋 🥻 🔊 🕅 🔚 🗐	Disconnect - POL688_EE49A8 USB	
Project 👻 🕂	Settings	٩ ۵
⊡S DefaultLight ^	Communication	Current Language
- Construction Settings	Target: POL6x8 V	S Browse for Application – 🗆 🗙
Configuration	Interface: USB ~	C:\Users\andrei.balan\AppData\Local\SBT\RainbowScope\DefaultUght\Output
Froject		Files Modified Size
- Mi Target	USB	ATLAS_4.03.A_Code_687.ucf 2022-03-04 07:44:16 440 KB
Time		
Diagnostics		
Data Points Parameter Up- and Download	Device: POL688_EE49A8 ~	
Documentation	Auth:	2)Copy the
	Double click	
Schedulers or	one of the <u>six</u>	output folder
Calendars V	rows	address
Loader Control		→ #
Files RSP Auto Liborade		4
Type File Time	GUID Harget GUID	un caron
Application MBRTCode.ucf -	- A6B19093-3DA7-	
Mapping-Comp OBHVNcomp.ucf -	- A931A0C1-837A-4	4335/M00-EB40321F3FEF (3) SETECT OK
HMI4Web HMI4Web.ucf -	- 18D9D0E3-BC2B-	-44F3-9B59-57A43071E1FD
BACnet Client BACnet.csv -		
L Light-version ScopeConfig.ucr -	- /B2//C61-411E-4	1043-R031-106L84118E06
Load Cancel		
Alarm OProtocol De Loader		

Figure 31 Copy the Output folder address

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Open the file explorer on your computer and paste the Output folder address in the address bar d)

Image: Image				-	□ × ~ (?
← → ✓ ↑ 📕 C:\Users\andrei.balan\AppData\Local\	BT\RainbowScope\DefaultLight\Output		~ Ŭ	, Cerca in Output	
OneDrive - Daikin Applied Europe S.p.a	Nome	Ultima modifica	Тіро	Dimensione	
🧢 Questo PC	ATLAS 4.03.A Code 687.ucf	04/03/2022 07:44	File UCF	440 KB	
Apple iPhone	ATLAS_4.03.A_HMI.ucf	02/03/2022 09:08	File UCF	82 KB	
Desktop	ATLAS_4.03.A_OBH_687.ucf	02/03/2022 09:00	File UCF	76 KB	
Documenti	ATLAS_4.03.A_scope.ucf	23/12/2020 16:22	File UCF	30 KB	
Download	ATLAS_4.03.A_Web.ucf	02/03/2022 09:08	File UCF	365 KB	
📰 Immagini	POL687_BSP_V1036.UCF	5/05/2019 18:27	File UCF	3.043 KB	
Musica		$\langle \rangle$			
Oggetti 3D					
Video					
II Disco locale (C)	Paste	the Output fol	der		
	addres	s on the addres	s bar		
💞 Rete	oft	the File Evolore	r /		
			' /		
6 elementi					

Figure 32 Paste the Output folder address in the address bar of the File Explorer

e) Create a shortcut of the Output folder on your desktop

Image: Conduct Image:	Local > SIT > RainbowScope Perketugin Caput O Percea in Output Nome AtTAS_403A_Code_687.act AtTAS_403A_Robe_da7.act AtTAS_403A_Robe_da7.act AtTAS_403A_Robe_da7.act AtTAS_403A_Robe_da7 Directore Directore Code Directore Directo
5 element.	الله من الله من من الله من الله م

Figure 33 Create Output folder shortcut

Open the shortcut of the output folder from desktop. Make sure to delete all existing files and copy in this f) folder only the unzipped files of the software you need to update on the Siemens Controller.

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From Scope Light Loader Control window select now the files to be updated on the Siemens Controller: g) Double Click on the raw of Loader window and when the browse window appear, select the file

S DefaultLight - Climatix SCOPE Light (Light)		-	o x
🎢 Menu 🗸 🔂 🗋 🎉 🔊 (*) 🗔 🗐	Disconnect - POL688_EE49A8 USB		
Project 👻 👎	Settings		4 Þ 🗙
DefaultLight	Communication	Current Language	
Settings	Target: POL6x8	S Browse for Application - X	
- 💰 Configuration			
- 📝 Project	Interface: USB	L:/Users/andrei/baian/appUata/Local/SB1/HainbowScope/DefaultUght/Output	
Soot Note		Files Modified Size	
🖃 🌆 Target	USB	ATLAS_4.03.A_Code_687.ucf 2022-03-04 07:44:16 440 KB	
Diagnostics	-		
🖃 🎯 Data Points	Device: POL688_EE49A8 V		
- 2 Parameter Up- and Download	Auth:		
Wetch Pages	Double click	/ 2)Select the	
Schedulern	Double click	Application file	
Calendars	one of the six/		
	rows		
Loader Control			-
Files BSP Auto Upgrade			4 P
Tura Ela Tura	GUID and G	OK Cancel	
Type File Time	GOID Haiget G		
Application MBRTCode.uct -	- A68190	33-30A7-4E80-8AA3-3ECAZAF8CUCC	
Mapping-Comp OBHVNcomp.ucf	- 4931400	C1-8374-4372-B0R2-E114EFC88E11	
HMI4Web HMI4Web.ucf -	- 180900	E3-BC2B-44F3-9B59-57A43071E1FD	
BACnet Client BACnet.csv -			
Light-Version ScopeConfig.ucf -	- 7B277C	61-411E-4543-A531-156C84118E56	
Load Cancel			
Alarm Notocol 🔤 Loader			

Figure 34 Select software files

- Repeat "step g" for all the remaining files: HMI-Cnf-Comp, Mapping-Comp, HMI4Web, Light-Versionh) Config except BACnet Client, until all the software files are selected
- Before the update can begin, the application on the controller needs to be stopped. To do so the controller i) can be updated.

To stop the controller application, go to: Menu \rightarrow Application \rightarrow Stop

Menu 🗸	S 🗋 👔	9 (*) 🖬 🖬 🕴	Disconne	ct • POL688_EE49A8 U	SB	
P Projec	t 🔸	– 4	Setti	ngs		
Recen	Projects >		Communicat	ion		Current Language
Applic	ation 🕨	Start	<u>T</u> arget:	POL6x8	~	Application \sim
View	•	Stop	Interface:	USB	~	Engineering Unit Support
Help	•					enable \checkmark
	Diagnostics ata Points Parameter Up-a Documentation Watch Pages Schedulers Calendars end Online Archive	and Download	Device: Auth:	POL688_EE49A8 Stop the a Sieme	pplication on t	Export Cache Files Export

S DefaultLight - Climatix SCOPE (Light)

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Figure 35 Stop Controller Application

i

INFORMATION The controller enters in software update mode: the display will be OFF and the BSP led Orange



Figure 36 Controller in Software update mode

j) If the Connection to device has been lost! Window appears, press OK and recconect again to the controller.



Figure 37 Connection lost warning



INFORMATION

After the application stops on the controller, this could result unavailable on the Scope Light Application, and it could be necessary to disconnect and reconnect the USB cable until the controller becomes again available and is possible to reconnect by clicking on the Connect button.

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Figure 38 Controller not available

k) Once reconnected, a warning window will reappear to let you know that the application has been stopped on the target (controller). Acknowledge this warning by pressing OK.



Figure 39 Application stopped warning

I) It's possible now to start software update by clicking on the "Load" button on the loader control window.

Loader Control				
Files BSP				
Type Application HMI-Cnf-Comp Mapping-Comp HMI4Web BACnet Client	File ATLAS_4.03.A_Code_687.ucf ATLAS_4.03.A_HMI.ucf ATLAS_4.03.A_OBH_687.ucf ATLAS_4.03.A_Web.ucf BACnet.csv	Time 2022-03-04 07:44:16 2022-03-02 09:08:14 2022-03-02 09:00:54 2022-03-02 09:08:26	GUID F4D04DCD-23A2-42AE 9A5C105D-64B1-45C3-9 2DDFB21D-D707-47DB D01CF41A-447C-49ED	Start Software update
Load	ATLAS_4.03 A_scope.ud	2020-12-23 16:22:28	D656FAC2-411A-4C58-A	•

Figure 40 Start Software Update

m) The software update is completed when on the Message column all the voices show "completed"

I	Loader Control					
	Files BSP					
	Type Application HMI-Crif-Comp Mapping-Comp HMI4Web BACnet Client Ught-Version-Config	File ATLAS_4.03.A_Code_687.ucf ATLAS_4.03.A_HMI.ucf ATLAS_4.03.A_OBH_687.ucf ATLAS_4.03.A_Web.ucf BACnet.csv ATLAS_4.03.A_scope.ucf	Time 2022-03-04 07:44:16 2022-03-02 09:08:14 2022-03-02 09:00:54 2022-03-02 09:08:26 - 2020-12-23 16:22:28	GUID F4D04DCD-23A2-42AE 9A5C105D-64B1-45C3-9 2DDFB21D-D707-47DB D01CF41A-447C-49ED - D656FAC2-411A-44C58-A	Target GUID Software update Completed	Message Completed Completed Completed Completed
	Load	ancel				

Figure 41 Software update completed

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Restart the application on the controller by selecting Menu \rightarrow Application \rightarrow Start n)

S DefaultLight - Climatix SCOPE (Light)

	Recent Projects	•			Current Language
	Application	• 0	Start	`	Application ~
	View	. 0	Stop	~	Engineering Unit Support
0	Help	► St	tart applicat	ion on targ	get system
0	Exit				Export Cache Files
De	vice: POL688_	EE49A8		~ \	Export
Au	th:				
				Star	t Target Application

Figure 42 Start Target Application

Once the software upload has completed and the controller restarted, check in the About Chiller menu o) that the actual software version corresponds to the one just installed. In case the software version does not correspond, check that you have the correct software version for the controller copied on the output folder repeat the software update procedure.

About Chille	er
Unit Serial	Number
Enter Data	
Software	ATLAS
	3.09.B
BSP	10.36

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Figure 43 About Chiller menu

p) Once the software is successfully updated, it is possible to restore the parameters on the controller.

e) Scope Parameter Restore procedure

- From the Project page click on the Parameter Up- and Download a)
- Step 1) Select the option All object interface with all members b)
- Step 2) Select the desired parameter file c)
- Step 3) Click on the PC→Target button and confirm the parameter upload d)
- Parameter upload procedure finishes when the progress bar arrives at 100% and disappears e)

Menu + S C * O C	Disconnect - POL688_EE49A	8 USB			- 0 ^
Project • 0	Setting / Parametel Parametel Coding Restore Selection Al Instances with mandatory @ Al object instances with all m Ordy instances from type: Calendar/Scheduler Trand COM-Module Enabled Objects	members	Step 3) Step 3) Step 3) Step 1) Select All object interface with all members	art Parameter upload into the controller	4 ₽ >
	Description File Parameter Paramete parameter 2 Paramete parameter 3 Paramete	Time Type rPOL 2022;04:03 Image rPO 2023;44:03 Image rPOL 2022;24:03 Image	Step 2) Select the desired paramet files	er Progress bar	

Figure 44 Parameters upload procedure

- Recycle the controller by removing the power supply or select "Apply changes" in menu Commission Unit f) \rightarrow Configuration \rightarrow Unit \rightarrow Apply Changes = YES to restore actively the parameters.
- Since the parameter update is done in 2 stages, it is necessary to repeat the Parameter Restore g) procedure twice
- The Software update and Parameters restore procedure are completed. h)



INFORMATION

In case the restore procedure fails, all the parameters are set as default. So, unit, circuit configuration, alarm limits, sensor calibration, compressor run hours and starts, frequency parameters are anyway possible to update manually. In case parameters are lost, refer to service support for correct unit configuration, attaching the unit serial number.

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POL 687 (Phased Out - Microtech 3) 6

6.1 Description





LED BSP "Run / Stop": 3 colours (green, red, and orange)

Mode	LED
SW update mode (download application or firmware)	Every second alternating between red and green
Application running	Green on
Application loaded, but not running	Orange on
Application not loaded	Orange flashes: 50 ms on, 1000 ms off
Firmware error	Red blinking at 2 Hz
Hardware fault	Red on

Table C LED BSP meaning

LED BUS: 3 colours (green, red and orange) ٠

This LED only indicates the status of modem communication.

Mode	LED
No modem connected, or LED disabled	Off
Modem connected and initialized no communication active	Orange on
Modem connected and communication active	Green on
Modem connected but errors active (like provider missing, no initialization possible)	Red on

Table D LED BUS meaning

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6.1.1 **SD-Card specifications**

- All SD Cards are supported and some SDHC cards
- Fast speed SD Cards are supported (class 2)
- Supported File system: FAT16 and FAT32
- Cards up to 2GByte are fully supported

a) How to check if SD supported

Not all the software has this option, but most software will allow to check the compatibility of the SD card with the controller by following this procedure:

- Insert the service Password 1.
- Go to the Save/Restore menu 2.

INFORMATION

Save/Restore Menu Location

- Chillers Software: → Main Menu
- AHU Modular and Professional AirStream Software: Commissioning →Config • Save/Load
- AHU Professional D-Stream Software: Commissioning → Save/Load •
- 3. Insert the SD card in the dedicated slot.



Figure 48 Controller dedicated SD card slot

If the SD Card status shows ReadWrite then the SD Card is supported

1	Save/Restore		•	
	SD Card	ReadWrite		*
	Software Update	Idle	₽	
	Save Parameter	No	•	
	Status	Idle		
	Restore Parameter	No	•	
	Status	Idle		
	Save Memory	No	•	
	Reset Defualt	No	•	*

Figure 49 Compatible SD card message

If the SD Card status shows NoCard then the SD Card is NOT supported

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1	Save/Restore		•	
	SD Card	NoCard		^
	Software Update	Idle	Þ	11
	Save Parameter	No	Þ	
	Status	Idle		
	Restore Parameter	No	Þ	
	Status	Idle		
	Save Memory	No	•	
	Reset Defualt	No	•	-

Figure 50 Not compatible SD card message

 If the SD Card Status is not shown, means that the software does not have the option to control the SD Card compatibility.



INFORMATION Some software doesn't have the "SD Card" string in Save/Restore menu

4. Pin of 2 mm diameter.



Figure 51 SD cards and 2 mm diameter pin

6.2 Update by SD-Card



INFORMATION

The BSP update can only be performed using the SD Card method. When updating the BSP, the SD card must also contain the software files, otherwise the controller will erase.

a) SD-Card Save Parameters Procedure

1. Insert the SD card into the controller card slot



Figure 52 Controller dedicated SD card slot

2. Use "Save Parameter → Yes" function to download PARAM.UCF file from controller to SD card

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INFORMATION

Depending on software version, the string of "Save Parameter" functionality can be different. Refer to the table in appendix to use the correct string. Possible strings are:

- Save Parameter
- Save Params • •
- Save to File
- Save to SD





Figure 53 The Save/Restore menu could look different depending on software version



INFORMATION

Parameter files are now written to the SD card. Two PARAM files one in "UCF" and one in "BIN" format are stored on the SD card. Copy and save these files into a new directory in the PC

SD-Card Software Update Procedure b)

1. Upload all unzipped files of the software to the root of the formatted SD card.



WARNING SD Card must contain only software .ucf files

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SD > Questo PC > SDHC (D:)				~ U) ,P Cerca in SDHC (D;)
ATLAS_3.09.B_Code_687.ucf	30/09/2021 09:18	File UCF	429 KB		
ATLAS_3.09.B_HMLucf	30/09/2021 09:06	File UCF	145 KB		
ATLAS_3.09.B_OBH_687.ucf	31/03/2021 17:06	File UCF	58 KB		
ATLAS_3.09.B_Scope.ucf	23/12/2020 17:22	File UCF	30 KB		
ATLAS_3.09.B_Web.ucf	30/09/2021 09:06	File UCF	376 KB		
POL687 BSP V1036.UCF	13/04/2017 10:30	File UCF	3.043 KB		

Figure 54 Example of software unzipped in the root of the SD card

2. Insert SD-Card in the Controller dedicated SD card slot with controller "On"



Figure 55 Controller dedicated SD card slot

- 3. Turn off power to the controller.
- 4. Insert the pin in the dedicated slot and gently push the internal reset button



Figure 56 Controller dedicated pin slot

5. Keep the button pushed with the pin and give power to the controller.



INFORMATION During this phase BSP led blinks green

6. When the BSP led starts blinking red and green stop pushing the pin.

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Figure 57 BSP Led flashes red and green during software upload

7. When BSP led is fixed orange, immediately remove the power from controller.



Figure 58 BSP Led becomes orange when software upload is completed

8. Give power to the controller



WARNING

(*) At the first start of the controller after the software update, if there is installed any communication board (Modbus, Bacnet, etc...), it is very important to wait an automatic uploading of the communication board too. The communication board software update will start automatically once the controller has started and main board will be restarted when the update is completed.

9. We strongly suggest repeating the upload procedure (point 2 till 7) twice to guarantee a complete software upload

10. Once the software upload is complete and the controller restarted, check in the *About Chiller* menu that the actual software version corresponds to the one just installed. In case the software version does not correspond, check that you have the correct software version for the controller copied on the SD card and repeat point 2 till 7.

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About Chille	er	
Unit Serial	Number	
Enter Data		
Software	ATLAS	
	3.09.B	
BSP	10.36	

Figure 59 About Chiller menu

c) SD-Card Restore Parameters

It's possible to perform a copy of the old parameter settings using the Restore Parameter function as following

- On an empty SD card, copy the files PARAM.UCF and PARAM.BIN
- On an empty SD card, copy the tiles PARAIN.
 Insert the SD card into the controller card slot.
- 3. Insert technician password
- 4. Go to Save/Restore menu
- 5. If the SD Card appears in the menu, check that the SD Card status shows ReadWrite otherwise check that the SD is well inserted or replace the SD card. If the SD Card is not shown, then the software does not have the SD Card compatibility test function. In this case just go to step 12.
- Use the "Restore Parameter" functionality to download the PARAM.UCF file from SD Card to controller 6



INFORMATION

Depending on software version, the string of "Restore Parameter" functionality can be different. Refer to table in the appendix to use the correct string. Possible strings are:

- Rstr from file
- Rstr from SD •
- **Restore Parameters** •
- Load from SD •

1	Save/Restore		•			1	Save/Restore			
	SD Card	ReadWrite			1		SD Card	ReadWrite		^
	Software Update	Idle		1	No		Software Update	Idle		
	Save Parameter	No		Ē	Partial		Save Parameter	No		
	Status	Idle			PULL		Status	Idle		
- b	Restore Parameter	No	•	I.			Restore Parameter	No		
	Status	Idle		÷			Status	Pass		
	Save Memory	No					Save Memory	No		
I	Reset Defualt	No		-			Reset Defualt	No	Þ	-

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Info	2	Save / Load	•	
		SD Card	NoCard	Execute
		Save Params	Þ	
		Load default	Þ	
		Load from SD	Þ	
		After loading from SD		
		restart required	Þ	
		1		
		ESC	ок	
- 		ESC		
	Info	● Info 2	Info ² Save / Load SD Card Save Params Load default Load from SD After loading from SD restart required ESC	 Info 2 Save / Load SD Card SD Card NoCard Save Params Load default Load from SD After loading from SD restart required ►

Figure 60 Save/Restore menu may be different, it depends on the software version

- The restore parameter function is successful if the Status changes from Idle to Pass. a)
- If the status Fail pops out repeat the step 6. b)
- 7. Recycle the controller by removing the power supply or select "Apply changes" to restore actively the parameters, for the AHU select "restart required" in Save/Load Menu
- Since the parameter update is done in 2 stages, it is necessary to repeat the Parameter Restore procedure 8. (from point 2 till point 7) 3 times to guarantee a complete upload of the parameters



INFORMATION

CAUTION

In case the restore procedure fails, all the parameters are set as default. So, unit, circuit configuration, alarm limits, sensor calibration, compressor run hours and starts, frequency parameters are anyway possible to update manually. In case parameters are lost, refer to service support for correct unit configuration.



To double check the parameters already copied, verify each setting according to the Manual Configuration procedure

6.3 Update using Scope Light Application

Scope Light Application a)

a) Open the Climatix Scope Light application on your PC.



Figure 61 Climatix Scope Light Application

b) If the protocol window appears, just close this window by clicking on the X mark on the top right corner

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S DefaultLight - Cli	matix SCOPE (Ligh	nt)								- a ×
Menu + S	0010	Connect	Serial							
Contrast 15	Quta	1 112 Har • •								4.6.5
A Settings	startup			_		_				
1.34										
SIE SIE	MENS	C Open Projec	£	-						
-		Create Proje	d	Pro	itocol					
. Alter	Siles -	Recent Project	ts	ō	Date	Level	Information	Looper	-	
				0	2022.02.21 14-21-22 001	Info	Inclusion Onto channed	Designet		
				1	2022-03-31 14-21-34 021	Info	Application State changed	Project		<u> </u>
				0 ur	2022-03-31 14-21 44 038	Info	Application Sate changed	Project		
				abo	2022-03-31 14 21 54 070	Info	Application State changed	Project		
				12	2022-03-31 14:23:08:720	Info	Connection State is reset, i	Project	/ Close Pro	tocol \
NO DO					2022-03-31 14:23:08:738	Warning	connection resets	Project		
					2022-03-31 14:23:17:637	Info	Connection State is establis	Project	Vind	ow /
					2022-03-31 14:23 17,648	Info	Connection established	Project	A CONTRACTOR	
					2022-03-31 14:23:17,682	Info	Application State changed	Project		
					2022-03-31 14:23:51,731	Info	Application State changed	Project		
	V 10.2				2022-03-31 14:24 11,733	Info	Application State changed	Project		
					2022-03-31 14:24:19.718	Info	Connection State is reset, i	Project		
China Care Constant					2022-03-31 14:24:19.725	Warning	connection resets	Project		
					2022-03-31 14:24:40,700	info	Connection State is no con	Project		
					2022-03-01 14/24 40,702	Warring	reconnect failed	Project		
					2022-03-31 14:24:40,704	Info	Connection closed	Project		
					2022-03-31 14:24:40.729	Warning	Connection to device has b	Project		
					2022-03-31 14:30:34.276	Info	Project saved	Project		
-					2022-03-31 14:30:34.294	Info	Project saved	Project		
Close page after p	project load				2022-03-31 14:30:34,358	Info	Connection State is establis	Project		
Show page on sta	artup				2022-03-31 14:30:34:373	Info	Connection established.	Project		
10 10000420000					2022-03-31 14:30:34,442	into	Appecation state changed	Project		
Loader Control					2022-03-31 14:53:00,080	info.	Project saved	Project		×
(2022/09/02 17:29/22.252	10 Info	Project saved	Project		d b
Fies BSP				-	2022-04-02 17:25:01:543	lefo	Project served	Project		
Time	File	Time	GUID		2022-04-02 17 27 52 756	info.	Project saved	Project		
Cd Analysis	ADAM 3 OC A C	2022 01 21 00 10.00	04005344 5843 4045 4		2022-04-02 17:31:33 963	Info	Project saved	Project		
Application	ADAM 3.06 A L	2022-01-31 06:16:00	0403E2AA-E6A3-4043-A		2022-04-02 17:41:53 710	Info	Project saved	Project		
Massing Comp	ADAM 3.06 A O	2022/01/31 00.30.30	E0042C3/A3UB/4132/A.		2022-04-02 17:45:20 926	info	Project saved	Project		
HML4Web	ADAM 3 06 A	2022-01-31 08:37:06	SETCRESD.2DAC.4C68						v	
BACnet Client	BACost cav	-	-							
D Light-Version-	ADAM 3.06.A S	2021-09-30 08:00:10	4B158C82-D47B-4075-9							
(I doubt)	Canad									
(Landa)	Car Car									
-				-		_				

Figure 62 Main window in Scope Light

b) Siemens POL 687 Controller to PC connection



INFORMATION

In this paragraph, scope light controller connection with USB to RJ45 service cable is explained. For Ethernet cable connection refer to Paragraph 7. Scope Light – connection by ethernet cable

a) Go to the Settings Tab:

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Figure 63 Settings Window

- b) From the Target dropdown window select POL 687
- c) From the Interface dropdown window select USB

11		1
	- H	
Ш		

INFORMATION

In this menu it can be selected the type of connection is intended to use; in this tutorial the USB connection is explained.

The USB to RJ45 service cable is available as a Daikin Spare Part: PN 10000109500



Figure 64 USB to RJ45 service cable P.N. 10000109500

d) Click on the Save All Tabs to save the current settings.

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DeraultLight - Climatix SCOPE (Light)	
🖥 Menu 🗸 🛐 🗋 🥻 🖃 🥙 🥙 🔚 🔛 🏺 Con	nect • POL687_09338B • USB
Startup	
Communication	Current Language
Target: POL687 🗸	Application
Interface: USB 🗸	Engineering Unit Support
USB Device: POL687_09338B V	enable Export Cache Files Export (b) Soloct POL 687
Auth:	elect USB

Figure 65 Communication Settings

e) Connect the USB - RJ45 cable from the PC to the Siemens Controller



Figure 66 USB Connection Cable



INFORMATION

Once the cable is connected, automatically the Siemens controller drivers are installed on the PC. This operation usually takes just a couple of seconds. When driver installation is done, the POL687 device becomes available in the Device dropdown menu.

f) Select POL687 from the Device dropdown menu

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S DefaultLi	ight - Climatix SCOPE (Light)		
🗄 🎢 Menu	📲 💽 🗋 🎉 🔊 🖗 🔛 🖬 🍯 Con	nect • POL687_09338B	 USB
Setti	ings*		
Communicat	tion	Current Language	
<u>T</u> arget:	POL687 ~	Application	~
Interface:	USB (h) Click Connect	Engineering Unit Support	
USB		Export Cache Files	~
Device:	POL687_09338B ~	Export	
Auth:			
		g) Select POL from the Dropo	687 down
		Menu	

Figure 67 Connection Settings

S DefaultLight - Climatix SCOPE (Light)

arget: POL687 terface: USB SB Device: POL687_093388 Auth: Polesce geter your Pibl	get: POL687	
Auth:		✓ Application ✓
ISB Device: POL687_093388 Auth: Please enter your PIN	erface: USB	C Engineering Unit Support
Device: POL687_09338B ~ Export Cache Files Export Device: POL687_09338B ~ Export	8	enable ~
Device: POL687_09338B V Export Auth: Disarce enter your PIN	-	Export Cache Files
Auth: Diease enter your PIN	POL687_093388	~ Export
Fiease enter your Fill	uth:	Please enter your PIN
01		OK Creat

Figure 68 Daikin Service Password

- g) Click on the Connect Button
- h) Put the Daikin Service Password when asked for the PIN

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On board controller: when connecting controller, parameters are read by Scope Light. Before proceeding with any action on Scope Light, the parameter reading process must be completed.

Reading object: 0x2201 'U\EstopSwAl'.	,
🕵 Browser 🛕 Alarm 🕦 Protocol 📾 Loader	

Figure 69 Scope reading parameters

c) Scope Parameters Save procedure

a) On the project page, click on the Parameter Up – and Download then click on the Target -> PC button



Figure 70 Parameter Up - and Download

b) A new file will appear on the window below and it is possible to choose the name of this file. Confirm the name by pressing enter on the PC Keyboard and the parameter download procedure starts. The procedure is completed when the progress bar goes to 100%

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Figure 71 Parameter Up - and Download

d) Scope Software upload procedure

a) Enable the Loader window by going to: Menu \rightarrow View \rightarrow Loader



Figure 72 Enable / Disable Loader Window

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S DefaultLight - Climatix SCOPE (Light)		- • ×
🌃 Menu 🗸 💽 🗋 🍞 🕅 🔛 💭	Disconnect • POL687_09338B USB	
Project - a	Settings	x 4 b
E-S DefaultLight	Communication	Current Language
	Larget: POL687 V	Application V
👔 Project	Interface: USB ~	Engineering Unit Support
	1100	enable ~
- Internet	USB	Evond Cache Files
- Diagnostics		Find
E Data Points	Device: POL687_09338B V	
- Real Documentation	Auth:	
🕵 Watch Pages		
E-I Trend		
Online		
Archive		
		(Software files)
		window
		WINDOW
London Control	Loader Control	- + x
(Loader Control	Files BSP	4 Þ
button	Type File Time	GUID Target GUID Message
	Application ADAM 3.06.A_C 2022-01-31 08:18:00	0409E2AA-E8A3-4D45-A CDC6F1AB-C8A9-44AB-8EC5-15272C949485
	HMI-Crif-Comp ADAM 3.06.A_H 2022-01-31 08:36:58	854942C3A3D94132A. F150A831-0522402390A3A84522200A02
$\langle \rangle$	✓ Happing-comp ADAM 3.06.A 2022-01-31 08:43:32	6E1CF502DAC4C65 A0396E1148434950884044C3DC4988E0
$\langle \rangle$	BACnet Client BACnet.csv -	
	Ugnt-version ADAM 3.06.A_5 2021-05-30 08:00:10	481300.62-0478-4073-3
	Load Cancel	
l à		
	Loader 🕂 Alarm	

Figure 73 Loader Window

- b) Double click on the first raw in the Loader Window The Browse window will appear
- Copy the output folder address to be able to create a shortcut of this folder on the desktop. In this folder C) we need to copy the Software files later.



Figure 74 Copy the Output folder address

d) Open the file explorer on your computer and paste the Output folder address in the address bar

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Figure 75 Paste the Output folder address in the address bar of the File Explorer

e) Create a shortcut of the Output folder on your desktop



Figure 76 Create Output folder shortcut

- f) Open the shortcut of the output folder from desktop. Make sure to delete all existing files and copy in this folder only the unzipped files of the software you need to update on the Siemens Controller.
- g) From Scope Light Loader Control window select now the files to be updated on the Siemens Controller: Double Click on the raw of Loader window and when the browse window appear, select the file

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Project	■ 0 / Settings					4 1
-S DefaultLight	Communication	Current Language				
- Settings	Terpet: POL687	 Application 	S Browse for Application	-	o x	
- Project	100 UCD	Engineering Unit Suppo enable	C:\Users\andrei.balan\AppData\L	ocal\SBT\RainbowScope\De	faultLight\Output]
Time Diagnostics Data Points Parameter Up- and Downi Documentation Watch Pages	Device: POL687_093388 ~ Auth:	Export Cache Files Export	Files ATLAS_4.03.A_Code_687.ucf	Modified 2022-03-04 07:44:16	Size 440 KB	
Condens Terd Conne Rotive	Double click Application					2) Select the Application file
	Loader Control File: ESP Type: File: V (Pelotation ADMA 3 (K), A Control (V) MIRIC FC-comp. ADAM 30: A, 20MM 20: A, 20MM 20: A MIRIC FC-comp. ADAM 30: A, 20MM 20: A, 20MM 20: A MIRIC FC-comp. ADAM 30: A, 20MM 20: A, 20MM 20: A MIRIC FC-comp. ADAM 30: A, 20MM 20: A, 20MM 20: A MIRIC FC-comp. ADAM 30: A, 20MM 20: A	pe 2022-01-31 06:18:00 2022-01-31 08:36:58 2022-01-31 08:43:32 2022-01-31 08:37:06	00/22/ALE2A3 4015 A CCCCF148 C53/ 8548225 A309 4112 A F1504831-8524 F030424 2005 A149 C 70506 4933 4 6E10FF50 20AC 4058 A149 C 70506 4933 4 5E10FF50 20AC 4058 A149 C 70506 4933 4	OK 4448-0265152720540465 023-9043-848F22200402 CC1-80C0-286774ED4736 950-8840-84C3DCA388E0	Cancel	(3) Select OK
	Ught-Venion ADAM 3.06.A_Scope.udf	2021-09-30 08:00:10	48158C82-D478-4075-9			

Figure 77 Select Software file

- Repeat "step g" for all the remaining files: HMI-Cnf-Comp, Mapping-Comp, HMI4Web, Light-Versionh) Config except BACnet Client, until all the software files are selected
- i) Before the update can begin, the application on the controller needs to be stopped. To do so the controller can be updated.

To stop the controller application, go to: Menu \rightarrow Application \rightarrow Stop



Figure 78 Stop controller Application



The controller enters in software update mode: the display will be OFF and the BSP led Orange

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Figure 79 Controller in Software update mode

If the Connection to device has been lost! Window appears, press OK and recconect again to the j) controller.

Climatix S	SCOPE	
8	Connection to device has been lost!	
	Show this message again	
		ОК





INFORMATION

After the application stops on the controller, this could result unavailable on the Scope Light Application, and it could be necessary to disconnect and reconnect the USB cable until the controller becomes again available and is possible to reconnect by clicking on the Connect button.



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Figure 81 Controller not available

Once reconnected, a warning window will reappear to let you know that the application has been stopped k) on the target (controller). Acknowledge this warning by pressing OK.



Figure 82 Application stopped warning

It's possible now to start software update by clicking on the "Load" button on the loader control window. I)

Loader Control				
Files BSP				
Type Application HMI-Cnf-Comp Mapping-Comp HMI4Web	File ATLAS_4.03.A_Code_687.ucf ATLAS_4.03.A_HMI.ucf ATLAS_4.03.A_OBH_687.ucf ATLAS_4.03.A_OBH_687.ucf	Time 2022-03-04 07:44:16 2022-03-02 09:08:14 2022-03-02 09:00:54 2022-03-02 09:08:26	GUID F4D04DCD-23A2-42AE 9A5C105D-64B1-45C3-9 2DDFB21D-D707-47DB D01CF41A-4470-49ED	Start Software update
Load	ATLAS_4.03 A_scope.ucf	2020-12-23 16:22-28	D656FAC2-411A-4C58-A	

Figure 83 Start Software Update

m) The software update is completed when on the Message column all the voices show "completed"

l	oader Control					
	Files BSP					
	Type Application HMI-Crif-Comp Mapping-Comp HMI4Web BACnet Client Ught-Version-Config	File ATLAS_4.03.A_Code_687.ucf ATLAS_4.03.A_HMI.ucf ATLAS_4.03.A_OBH_687.ucf ATLAS_4.03.A_Web.ucf BACnet.csv ATLAS_4.03.A_scope.ucf	Time 2022-03-04 07:44:16 2022-03-02 09:08:14 2022-03-02 09:00:54 2022-03-02 09:08:26 - 2020-12-23 16:22:28	GUID F4D04DCD-23A2-42AE 9A5C105D-64B1-45C3-9 2DDF821D-D707-47DB D01CF41A-447C-49ED - D656FAC2-411A-4C58-A	Target GUID Software update Completed	Message Completed Completed Completed Completed Completed
	Load	Cancel				

Figure 84 Software update completed

Restart the application on the controller by selecting Menu \rightarrow Application \rightarrow Start n)

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S DefaultLight - Climatix SCOPE (Light)

:	n M	1enu 👻	S 🗋	1	20	- I		no Disco	onnect - POL687_09338B US	B
		Project		•						
-		Recent	Projects	•					Current Language	
		Applica	ation	•	0	Start		~	Application	\sim
		View		•	0	Stop	\mathbb{Z}	~	Engineering Unit Support	
	0	Help		•	5	Start ap	plicatio	n on targ	jet system	\sim
	0	Exit						$\backslash \backslash$	Export Cache Files	
	De	vice:	POL687	09338	B		```	\neg	Export	
	Au	th:								
							(Start	t Target Application)

Figure 85 Start Target Application

Once the software upload has completed and the controller restarted, check in the About Chiller menu O) that the actual software version corresponds to the one just installed. In case the software version does not correspond, check that you have the correct software version for the controller copied on the output folder repeat the software update procedure.

About Chille	er
Unit Serial	Number
Enter Data	
Software	ATLAS
	3.09.B
BSP	10.36

Figure 86 About Chiller menu

p) Once the software is successfully updated, it is possible to restore the parameters on the controller.

e) Scope Parameter Restore procedure

- a) From the Project page click on the Parameter Up- and Download
- Step 1) Select the option All object interface with all members b)

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- c) Step 2) Select the desired parameter file
- d) Step 3) Click on the PC→Target button and confirm the parameter upload
- e) Parameter upload procedure finishes when the progress bar arrives at 100% and disappears

🖁 Menu • 🔂 🗋 🎉 🧐 🥙 🔛 🔛	bisconnect - POL687_093388 USB	
Project 👻 👎	Settings 2 Parameter Load*	4 Þ 5
S DefaultUpt S Setings S Seting	Parameter Loading Percise Selection Nationation Selection Image: Step 3) Start Parameter Nationation with mandatory members Step 3) Start Parameter Only instances with all members Step 1) Select All object interface with all members Cold Module Step 1) Select All object interface with all members	neter upload into roller
Wetch Pages Schedulen Calendars Tend Onine Archive	Description File Time Type Parameter PDL 20220403 Image parameter 2 Parameter POL 20220403 Image parameter 3 Parameter POL 20220403 Image parameter 3 Parameter POL 20220403 Image Step 2) Select the desired parameter files	Progress bar
		Cancel

Figure 87 Parameters upload procedure

- f) Recycle the controller by removing the power supply or select "Apply changes" in menu Commission Unit
 → Configuration → Unit → Apply Changes = YES to restore actively the parameters.
- g) Since the parameter update is done in 2 stages, it is necessary to repeat the Parameter Restore procedure twice
- h) The Software update and Parameters restore procedure are completed.



INFORMATION

In case the restore procedure fails, all the parameters are set as default. So, unit, circuit configuration, alarm limits, sensor calibration, compressor run hours and starts, frequency parameters are anyway possible to update manually. In case parameters are lost, refer to service support for correct unit configuration.

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POL 638 (Phased Out – Microtech 3) 7

7.1 Description



Figure 5 (A) POL638 /STD with HMI

(B)



(B) POL638 /STD without HMI





Figure 89 a) SD Card slot b) T-IP port c) Pin Hole d) LED

LEDs for diagnostics



LED BSP "Run / Stop": 3 colours (green, red, and orange)

Mode	LED
SW update mode (download application or firmware)	Every second alternating between red and green
Application running	Green on
Application loaded, but not running	Orange on
Application not loaded	Orange flashes: 50 ms on, 1000 ms off
Firmware error	Red blinking at 2 Hz
Hardware fault	Red on

Table E LED BSP meaning

LED BUS: 3 colours (green, red and orange) ٠

This LED only indicates the status of modem communication.

Mode	LED
No modem connected, or LED disabled	Off

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Modem connected and initialized no communication active				
Modem connected and communication active				
Modem connected but errors active (like provider missing, no initialization possible)				
Table F LED BUS meaning				

7.1.1 SD-Card specifications

- All SD Cards are supported and some SDHC cards
- Fast speed SD Cards are supported (class 2)
- Supported File system: FAT16 and FAT32
- Cards up to 2GByte are fully supported

a) How to check if SD supported

Not all the software has this option, but most software will allow to check the compatibility of the SD card with the controller by following this procedure:

- 1. Insert the service Password
- 2. Go to the Save/Restore menu



INFORMATION Save/Restore Menu Location

• Chillers Software: → Main Menu

- AHU Modular and Professional AirStream Software: Commissioning →Config Save/Load
- AHU Professional D-Stream Software: Commissioning → Save/Load
- 3. Insert the SD card in the dedicated slot.



Figure 91 Controller dedicated SD card slot

• If the SD Card status shows ReadWrite then the SD Card is supported

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1	Save/Restore		•	
	SD Card	ReadWrite		^
	Software Update	Idle	₽	
	Save Parameter	No	Þ	
	Status	Idle		
	Restore Parameter	No	•	
	Status	Idle		
	Save Memory	No	×.	
	Reset Defualt	No	Þ	-

Figure 92 Compatible SD card message

If the SD Card status shows NoCard then the SD Card is NOT supported

1	Save/Restore		•	
	SD Card	NoCard		^
	Software Update	Idle	Þ	1
	Save Parameter	No	Þ	
	Status	Idle		
	Restore Parameter	No	Þ	
	Status	Idle		
	Save Memory	No	Þ	
	Reset Defualt	No	Þ	÷

Figure 93 Not compatible SD card message

If the SD Card Status is not shown, means that the software does not have the option to control the SD Card compatibility.



INFORMATION Some software doesn't have the "SD Card" string in Save/Restore menu

4. Pin of 2mm diameter



Figure 94 SD cards and 2 mm diameter pin

7.2 Update by SD-Card



INFORMATION

The BSP update can only be performed using the SD Card method. When updating the BSP, the SD card must also contain the software files, otherwise the controller will erase.

a) SD-Card Save Parameters Procedure

1. Insert the SD card into the controller card slot

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Figure 95 Controller dedicated SD card slot

2. Use the "Save Parameter" functionality to download PARAM.UCF file from controller to SD Card

i

INFORMATION

Depending on software version, the string of "Save Parameter" functionality can be different. Refer to the table in appendix to use the correct string. Possible strings are:

- Save Parameter
- Save Params
- Save to File
- Save to SD





Figure 96 The Save/Restore menu could look different depending on software version

INFORMATION

Parameter files are now written to the SD card.

Two PARAM files one in "UCF" and one in "BIN" format are stored on the SD card. Copy and save these files into a new directory in the PC

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b) SD-Card Software Update Procedure

1. Upload all unzipped files of the software to the root of the formatted SD card.



80 > Questo PC > SDHC (D:)				~ U	,P Cerca in SDHC (D:)
ATLAS_3.09.B_Code_687.ucf	30/09/2021 09:18	File UCF	429 KB		
ATLAS_3.09.B_HMLucf	30/09/2021 09:06	File UCF	145 KB		
ATLAS_3.09.B_OBH_687.ucf	31/03/2021 17:06	File UCF	58 KB		
ATLAS_3.09.B_Scope.ucf	23/12/2020 17:22	File UCF	30 KB		
ATLAS_3.09.B_Web.ucf	30/09/2021 09:06	File UCF	376 KB		
POL687_BSP_V1036.UCF	13/04/2017 10:30	File UCF	3.043 KB		

Figure 7 Example of software unzipped in the root of the SD card



2. Insert SD-Card in the Controller dedicated SD card slot with controller "On"

Figure 8 Controller dedicated SD card slot

- 3. Turn off power to the controller.
- 4. Insert the pin in the dedicated slot and gently push the internal reset button



Figure 9 Controller dedicated pin slot

5. Keep the button pushed with the pin and give power to the controller.

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6. When the BSP led starts blinking red and green stop pushing the pin.



Figure 100 BSP Led flashes red and green during software upload

7. When BSP led is fixed orange, immediately remove the power from controller.



Figure 101 BSP Led becomes orange when software upload is completed

8. Give power to the controller



WARNING

(*) At the first start of the controller after the software update, if there is installed any communication board (Modbus, Bacnet, etc...), it is very important to wait an automatic uploading of the communication board too. The communication board software update will start automatically once the controller has started and main board will be restarted when the update is completed.

- 9. We strongly suggest repeating the upload procedure (point 2 till 7) twice to guarantee a complete software upload
- Once the software upload is complete and the controller restarted, check in the *About Chiller* menu that the actual software version corresponds to the one just installed.
 In case the software version does not correspond, check that you have the correct software version for the controller copied on the SD card and repeat point 2 till 7.

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About Chiller	r	•
Unit Serial M	Number	
Enter Data		
Software	ATLAS	
	3.09.B	
BSP	10.36	

Figure 102 About Chiller Menu

c) SD-Card Restore Parameters

It's possible to perform a copy of the old parameter settings using the Restore Parameter function as following

- 1. On an empty SD card, copy the files PARAM.UCF and PARAM.BIN
- 2. Insert the SD card into the controller card slot.
- 3. Insert technician password
- 4. Go to Save/Restore menu
- 5. If the SD Card appears in the menu, check that the SD Card status shows ReadWrite otherwise check that the SD is well inserted or replace the SD card. If the SD Card is not shown, then the software does not have the SD Card compatibility test function. In this case just go to step 12.
- Use the "Restore Parameter" → "Full" functionality to download the PARAM.UCF file from SD Card to controller.



INFORMATION

Depending on software version, the string of restore parameter functionality can be different. Refer to table in the appendix to use the correct string. Possible strings are:

- Rstr from file
- Rstr from SD
- Restore Parameters
- Load from SD

Save/Restore		•			1	Save/Restore			
SD Card	ReadWrite		^			SD Card	ReadWrite		
Software Update	Idle			No		Software Update	Idle	►	
Save Parameter	No		T.	Partial		Save Parameter	No	►	
Status	Idle			FULL		Status	Idle		
Restore Parameter	No					Restore Parameter	No	►	
Status	Idle		÷			Status	Pass		
Save Memory	No					Save Memory	No	►	
Reset Defualt	No		-			Reset Defualt	No	►	

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					1
	Info	2	Save / Load	•	
			SD Card	NoCard	Execute
			Save Params	Þ	
			Load default	Þ	
			Load from SD	Þ	-
			After loading from SD		
			restart required	Þ	
			F80	ок	
	<u> </u>		ESC		
_					

Figure 103 Save/Restore menu may be different, it depends on the software version

- a) The restore parameter function is successful if the Status changes from Idle to Pass.
- b) If the status Fail pops out repeat the step 6.
- 7. Recycle the controller by removing the power supply or select "Apply changes" to restore actively the parameters, for the AHU select "restart required" in Save/Load Menu
- 8. Since the parameter update is done in 2 stages, it is necessary to repeat the Parameter Restore procedure (from point 2 till point 7) 3 times to guarantee a complete upload of the parameters



INFORMATION

CAUTION

In case the restore procedure fails, all the parameters are set as default. So, unit, circuit configuration, alarm limits, sensor calibration, compressor run hours and starts, frequency parameters are anyway possible to update manually. In case parameters are lost, refer to service support for correct unit configuration.



To double check the parameters already copied, verify each setting according to the Manual Configuration procedure

7.3 Update using Scope Light Application

a) Scope Light Application

a) Open the Climatix Scope Light application on your PC.



Figure 104 Climatix Scope Light Application

b) If the protocol window appears, just close this window by clicking on the X mark on the top right corner

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Menu - S	500	🔲 🗐 🕴 Connect	• Serial						
Settings	Satup								4 Þ
1		100							
SIE	MENS	Open Project	t						
A SIL	IVILIUS	Create Proje	d	2.4	toral				
					1000				
S COLOR	Sec.	Recent Project	ts	ø	Date	Level	Information	Logger	^
				2	2022-03-31 14:21:23.991	Info	Application State changed	Project	
				1	2022-03-31 14:21:34:021	Info	Application State changed	Project	
				UT a	2022-03-31 14:21:44,038	Info	Application State changed	Project	
				bion	2022-03-31 14:21:54.070	Info	Application State changed	Project	
				2	2022-03-31 14:23:08,720	Info	Connection State is reset, i	Project	Close Protocol
					2022-03-31 14 23 06,738	Warning	connection resets	Project	Window
					2022-03-31 14:23 17,637	Info	Connection State is establis	Project	Window /
					2022-03-31 14:23:17,648	Info	Connection established	Project	
PAY AT					2022-03-31 14:23:17,682	Info	Application State changed	Project	
AV AL					2022-03-31 14:23:51,731	info	Application State changed	Project	
	V N N				2022-03-31 14:24:11,733	Info	Application State changed	Project	
					2022-03-31 14:24:19,718	Info	Connection State is reset, i	Project	
					2022-03-31 14:24:19,725	Warning	connection meets	Project	
					2022-03-31 14:24:40,700	into	Connection State is no con	Project	
					2022-03-01 14-24-40,702	warring .	reconnect takeo	Project	
					2022-03-31 14:24:40,704	anto.	Connection closed	Project	
					2022.03.31 14:30-34 276	info.	Depart saved	Project	
					2022-03-31 14:30-34 294	info.	Project saved	Project	
Conserve allows	online local				2022-03-31 14-30-34 358	info	Connection State is establis	Project	
Close page aver p	xoject load				2022-03-31 14:30-34 373	Info	Connection established	Project	
C Show page on all					2022-03-31 14:30:34.442	Info	Application State changed	Project	
ander Control					2022-03-31 14 53:00.080	info	Project saved	Project	- 4
					2022-04-02 17:24:22.262	Info	Project saved	Project	
Files BSP					2022-04-02 17:25:01,543	Info	Project saved	Project	4
					2022-04-02 17:25 13,479	Info	Project saved	Project	
Type	File	Time	GUID		2022-04-02 17:27:52,756	Info	Project saved	Project	
Application	ADAM 3.06.A.C.	2022-01-31 08:18:00	0409E2AA-E8A3-4D45-A		2022-04-02 17:31:33,963	Info	Project saved	Project	
HMI-Crif-Comp	ADAM 3.06.A_H	2022-01-31 08:36:58	854842C3-A3D8-4132-A.		2022-04-02 17:41:53.710	Info	Project saved	Project	
Mapping-Comp	ADAM 3.06.A_O	2022-01-31 08:43:32	F0042C42-DC63-4A14-9		2022-04-02 17:45:20,926	into	Project saved	Project	
HMI4Web	ADAM 3.06.A	2022-01-31 08:37:06	6E1CFF5D-2DAC-4C68	_					
BACnet Client	BACnet.csv	•	·	1					
Ught-Version	ADAM 3.06.A_S	2021-09-30 08:00:10	4B158C82-D47B-4075-9	÷.					

Figure 105 Main window in scope light

b) Siemens POL 638 Controller to PC connection



INFORMATION In this paragraph, scope light controller connection with USB-B cable is explained. For Ethernet cable connection refer to Paragraph 7. Scope Light - connection by ethernet cable

a) Go to the Settings Tab:

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Figure 106 Scope Light settings menu

- From the Target dropdown window select POL 638 b)
- From the Interface dropdown window select USB c)



INFORMATION

In this menu it can be selected the type of connection is intended to use; in this tutorial the USB connection is explained.



Figure 107 USB-B Cable for POL 638

d) Click on the Save All Tabs to save the current settings.

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Menu • 🛐 🗋 😰 🖉 🕲	nt)
Settings Startup	
Communication	Current Language
Target: POL63x	V Application V
Interface: USB	Engineering Unit Support enable (d) Saves all tabs
USB	
	Export Cache Files
Device: POL638_05B4A3	Export
Auth:	(b) Select POL 638)
	(c) Select USB)

Figure 108 Communication Settings

Connect the USB-B cable from the PC to the Siemens Controller e)







INFORMATION

Once the cable is connected, automatically the Siemens controller drivers are installed on the PC. This operation usually takes just a couple of seconds. When driver installation is done, the POL638 device becomes available in the Device dropdown menu.

Select POL638 from the Device dropdown menu f)

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S DefaultLight - Climatix SCOPE Light (Light)								
🌃 Menu 🗸 🔄 🗋 🁔 🤊 🍽 🔚 🔜 🍹 Gonnect 🗧 POL638_05B4A3 🔹 USB								
Settings								
Communication	Current Language							
Target: POL63x ~	Application ~							
Interface: USB (h) Click Connect ~	Engineering Unit Support							
USB	enable ~							
	Export Cache Files							
Device: POL638_05B4A3 ~	Export							
Auth:								
	g) Select POL638							
	from the Dropdown							
	Menu /							

Figure 110 Connection Settings

S	DefaultLight - Climatix S	COPE Light	(Light)			
: 🛒	Menu 🗸 🔄 🗋 🔯	0 0 1	Disconnect 🔻	POL638 058443 1	8	
				- 02030 <u>-</u> 0304A3 - 0	·	
Co	mmunication		Current L	anguage		
Т	arget: POL63x		~ Applicatio	n	~	
Ir	nterface: USB		~ Engineeri	ing Unit Support		
	CD		enable		~	
	36		Export Ca	ache Files		
	Device: POL638_058	4A3	~ Expo	t		
	Auth:				Please enter y	rour PIN
Prot	ocol				ОК	Cancel
	Date	Level	Information	Logger		.::
R	2022-07-11 09:18:13,772	Info	Project saved	Project		
nfig	2022-07-11 09:18:13,914	Info	Project saved	Project		
ULS	2022-07-11 09:18:15,113	Info	Connection State is establis	Project		
ion l	2022-07-11 09:18:15,327	Info	Connection established.	Project		
	2022-07-11 09:18:15,451	Info	Application State changed	Project		
	2022-07-11 09:19:12,051	Info	Project saved	Project		
	2022-07-11 09:19:12,136	Info	Connection closed	Project		

Figure 111 Daikin PIN

- g) Click on the Connect Button
- h) Put the Daikin Service Password when asked for the PIN

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INFORMATION

On board controller: when connecting controller, parameters are read by Scope Light. Before proceeding with any action on Scope Light, the parameter reading process must be completed.

Reading object: 0x2201 'U\EstopSwAl'.	
🕵 Browser 🛕 Alarm 🕕 Protocol 📾 Loader	

Figure 112 Scope reading parameters

c) Scope Parameters Save procedure

a) On the project page, click on the Parameter Up – and Download then click on the Target -> PC button



Figure 113 Parameter Up – and Download

A new file will appear on the window below and it is possible to choose the name of this file. Confirm the b) name by pressing enter on the PC Keyboard and the parameter download procedure starts. The procedure is completed when the progress bar goes to 100%

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S DefaultLight - Climatix SCOPE Light (Light)		- 🗆 X
🌃 Menu 🕶 🚫 🗋 🁔 🕫 🖉 🖓	Disconnect + POL638_05B4A3 USB	
Project - 7	Settings 👸 Config Project 2 Parameter Load*	4 Þ 🗙
Defaultight Settings Configuration Project Tarpet Trane Deagnostics Data Points Data Points Decommentation Watch Pages Calendars Calendars Trane Trane Online Archive	arameter Loading If PC is Target All characes with mandatementers If PC is Target All characes with Once parameter file name is Only instances with Once parameter file name is Only instances with Once parameter file name is Only instances with Once parameter file name is Only instances with Once parameter file name is Only instances with Once parameter buttom Calendar/Schuler the procedure starts Trend Open Description File Parameter-POL538 Parameter-POL Image Image	Target > PC
Protocol		- 1 - 2
Date Level Information		
© 2022-07-11 09:20:09.139 Info Connection	r closed Project	
2022-07-11 09:20:09.267 Info Connection	State is no con Project	
2022-07-11 09:27:57,700 Info Project sav	ed Project (Progress Dal)	
g 2022-07-11 09:27:57,803 Info Project sav	ed Project	
2022-07-11 09:27:58,176 Info Connection	· State is establis Project	
2022-07-11 09:27:58,228 Info Connection	established. Project	
2022-07-11 09:27:58,307 Info Application	State changed Project	
2022-07-11 09:34:19,429 Info Parameter	Parameter-POL Para	~
Alarm () Protocol Coader		

Figure 114 Parameter Up – and Download

d) Scope Software upload procedure

a) Enable the Loader window by going to: Menu \rightarrow View \rightarrow Loader



Figure 115 Enable Loader window

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oject 👻	# Settings			
Defaultight Settings Settings Settings Project Traget Data Points Schedulens Schedulens Trend	Communication Target: POL63x Interface: USB USB Device: POL633 059 Auth: Loader but	Control tton	Current Language <u>Application</u> Engineering Unit Support enable Export Cache Files Export	Software files window
Files BSP Auto Upgrade Type File Application MBRTCode ucf HMI-Crif Comp HMIcomp ucf Mapping-Comp DBHVIComp ucf HMI-Web HMIWeb ucf BAChet Client BAChet cav Ught-Venion SopeConfig.ucf	Tme	GUID Ta - E4 - 63 - 85 - CC - CC 	pet GUID 902454-8249-4605-9C9C-FE2288305088 8C478F-DF98-4914-A132-820A-82E16948 8A158-82679-477-88F1-91DC88E53180 E91A79-4D0E-4CD3-9D10-55D4239CAEFD	Message

Figure 116 Loader Window

- b) Double click on the first raw in the Loader Window The Browse window will appear
- c) Copy the output folder address to be able to create a shortcut of this folder on the desktop. In this folder we need to copy the Software files later.

DefaultLight - Climatix SCOPE (Light)					- a ×
👬 Menu 🔹 🛐 🗋 🧊 🤎 🖓 👘	Disconnect - POL687_09338B USB				
Project - 4	a Settings				4 Þ x
□-S DefaultLight	Communication	Current Language			
- Settings	Target: POL687 V	Application	Browse for Application	– 🗆 🗙	
- Project	Interface: USB V	Engineering Unit Support	P\\Lees\andrei balan\AnnData\Local\SBT\RainhowS	Scope\DefaultLight\Output	
- Foot Note		enable			
- III Target	USB		Files Modified	Size	
- Ime - Se Diaconstics		Export Cache Hies	ACZC_6.00.A_Code.ucf 2021-11-17 07:4	46:20 253 KB	
🕀 💕 Data Points	Device: POL687_09338B ~	Export			
- 2 Parameter Up- and Download	Auth:				\land
Watch Pages					\land
- O Schedulers		×			
Calendars					
□- Interned					
Archive					Conv the Output
/ Dou	ble click on \				Copy the Output
					folder address
\ on	eofthe6 /				
	rows 🔨				
	Loader Control			OK Cancel	- + ×
	Eles BCD				4 Þ
	1909 0.01				
	Type File Ti	ime GUID	Target GUID	Message	
	Application ADAM 3.06 A Code687.ucf 20	022-01-31 08:18:00 0409 022-01-31 09:36:59 0549	E2AA-E8A3-4D45-A CDC6F1AB-C8A9-44AB-8EC5-15272C949485 42C3-43DB-4132-4 E1504D31-D523-4023-0043-849E22200402		
	Mapping-Comp ADAM 3.06 A_OBH687.ucf 20	022-01-31 08:43:32 F004	2C42-DC63-4A14-9 C7205C60-4933-40C1-8DC0-23877AED6736		
	HMI4Web ADAM 3.05.A_Web.ucf 20	022-01-31 08:37:06 6E10	FF5D-2DAC-4C68 AD396E11-4B43-4950-B840-84C3DCA98BE0		
	Light-Vention ADAM 3.06 A Scope ucf 21	- 021-09-30 08:00:10 4B15	- 8C82-D47B-4075-9		
	Load Cancel				
	🙀 Loader 🔥 Alam				

Figure 117 Copy Output directory

d) Open the file explorer on your computer and paste the Output folder address in the address bar

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Figure 118 Paste the output folder address in the address bar of the File Explorer

e) Create a shortcut of the Output folder on your desktop



Figure 119 Create Output folder shortcut

- f) Open the shortcut of the output folder from desktop. Make sure to delete all existing files and copy in this folder only the unzipped files of the software you need to update on the Siemens Controller.
- g) From Scope Light Loader Control window select now the files to be updated on the Siemens Controller: Double Click on the raw of Loader window and when the browse window appear, select the file

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S DefaultLight - Climatix SCOPE Light (Light)	- 🗆 X
🎢 Menu 🗸 🚫 📄 🁔 🖃 🍋 🔚 🔐 🍖 Disconnect 🗸	POL638_05B4A3 USB
Project - I Settings	X 4 b
-S DefaultLight	Current Language
Settings Target: POL	Sax V S Browse for Application - X
Emigration Interface: USE	E:\Users\andrei:balan\AppData\Local\SBT\RainbowScope\DefaultUpht\Output
S Foot Note	Files Modfied Size
Target USB	ATLAS_4.03.A_Code_687.ucf 2022-03-04 07:44:16 440 KB
Diagnostics Device:	V0L638 0584A3
Parameter Up- and Download	
Documentation	2)Copy the
Schedulers	(output folder)
Calendars on one of the	SIX
rows	address
Loader Control	- + + X
Files BSP Auto Upgrade	4 Þ
Type File Time GI	JID Terrget GUID OK Cancel
Application MBRTCode.ucf	A6B 19093-3DA7-4EB0-8AA3-3ECA2AF8C0CC
HMI-Cnf-Comp HMIcomp.ucf -	BC7BB6A020D5-4393-A7BC-EB4852175FEF (3) Select OK
HMI4Web HMI4Web.ucf -	A931AU1-837A4372-80022-014EFC 038-11 182090638-022-84473-9895-27A43071E1FD
BACnet Client BACnet.csv	•
Light-Version ScopeConfig.ucf -	78277C61-411E-4543-A531-156C84118E56
Load Cancel	
Alarm R Protocol R Loader	
<u> </u>	

Figure 120 Select software files

- Repeat "step g" for all the remaining files: HMI-Cnf-Comp, Mapping-Comp, HMI4Web, Light-Versionh) Config except BACnet Client, until all the software files are selected
- Before the update can begin, the application on the controller needs to be stopped. To do so the controller i) can be updated. To stop the controller application, go to: Menu \rightarrow Application \rightarrow Stop





INFORMATION

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The controller enters in software update mode: the display will be OFF and the BSP led Orange

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Figure 122 Controller in software update mode

j) If the Connection to device has been lost! Window appears, press OK and recconect again to the controller.



Figure 123 Connection lost warning



INFORMATION

After the application stops on the controller, this could result unavailable on the Scope Light Application, and it could be necessary to disconnect and reconnect the USB cable until the controller becomes again available and is possible to reconnect by clicking on the Connect button.



Figure 124 Controller not available

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k) Once reconnected, a warning window will reappear to let you know that the application has been stopped on the target (controller). Acknowledge this warning by pressing OK.



Figure 125 Application stopped warning

I) It's possible now to start software update by clicking on the "Load" button on the loader control window.

Loader Control					
Files BSP					
Type Application HMI-Cnf-Comp Mapping-Comp HMI4Web BACnet Client	File ATLAS_4.03.A_Code_587.ucf ATLAS_4.03.A_HMI.ucf ATLAS_4.03.A_OBH_687.ucf ATLAS_4.03.A_Web.ucf BACnet.csv	Time 2022-03-04 07:44:16 2022-03-02 09:08:14 2022-03-02 09:00:54 2022-03-02 09:08:26	GUID F4D04DCD-23A2-42AE 9A5C105D-64B1-45C3-9 2DDFB21D-0707-47DB D01CF41A-447C-49ED	Start Software	update
Light-Version-Config	ATLAS_4.03 A_scope.ucf	2020-12-23 16:22:28	0656FAC2-411A-4C58-A	•	

Figure 126 Start Software Update

m) The software update is completed when on the Message column all the voices show "completed"

L	oader Control					
	Files BSP					
	Type Application HMIACrif-Comp Mapping-Comp HMIAVeb BACnet Client Ught-Version-Config	File ATLAS_4.03.A_Code_687.ucf ATLAS_4.03.A_HMI.ucf ATLAS_4.03.A_OBH_687.ucf ATLAS_4.03.A_Web.ucf BACnet.csv ATLAS_4.03.A_scope.ucf	Time 2022-03-04 07:44:16 2022-03-02 09:08:14 2022-03-02 09:00:54 2022-03-02 09:08:26 - 2020-12:23 16:22:28	GUID F4D04DCD-23A2-42AE 9A5C105D-64B1-45C3-9 2DDF821D-D707-47DB D01CF41A-447C-49ED - D656FAC2-411A-4C58-A	Target GUID Software update Completed	Message Completed Completed Completed Completed Completed
	Load	Cancel				

Figure 127 Software update completed

n) Restart the application on the controller by selecting Menu \rightarrow Application \rightarrow Start

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L' CCODE (L' LA

	Project Recent Projects	:			Current Language
	Application	• 0	Start	Ň	Application ~
	View	, 0	Stop	~	Engineering Unit Support
0	Help	•	Start applicat	on on targ	get system 🗸 🗸
0	Exit				Export Cache Files
De	wice: POL638_	05B4A3			Export
			1	Star	t Target Application

Figure 128 Start Target Application

Once the software upload has completed and the controller restarted, check in the About Chiller menu O) that the actual software version corresponds to the one just installed. In case the software version does not correspond, check that you have the correct software version for the controller copied on the output folder repeat the software update procedure.

About Chille	er			•
Unit Serial	Number			
Enter Data			_	
Software		ATLAS		
		3.09.B		
BSP		10.36	•	



p) Once the software is successfully updated, it is possible to restore the parameters on the controller.

Scope Parameter Restore procedure e)

- a) From the Project page click on the Parameter Up- and Download
- Step 1) Select the option All object interface with all members b)
- Step 2) Select the desired parameter file c)
- Step 3) Click on the PC→Target button and confirm the parameter upload d)
- e) Parameter upload procedure finishes when the progress bar arrives at 100% and disappears

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S DefaultLight - Climatix SCOPE (Light)		– 🗆 ×
🎆 Menu 🔹 🛐 🗋 🦹 🦃 (**) 🔒 🔜	wo Disconnect + POL638_0584A3 USB	
Project 👻 👎	Settings 2 Parameter Load	4 Þ 🗙
Ordeadught O	Parameter Loading Perform Selection All indicates with animationy members All indicates with animations with animations with animation in the controller Only instances from type: Calendar/Scheduler Cold Module Builded Objects	Target -> PC
	Decoption Rie Time Type Parameter 2 Parameter POL. 2022/04/03 - Image parameter 3 Parameter POL. 2022/04/05 - Image Parameter 3 Parameter POL. 2022/04/05 - Image Step 2) Select the desired parameter files	

Figure 130 Parameters upload procedure

- Recycle the controller by removing the power supply or select "Apply changes" in menu Commission Unit f) \rightarrow Configuration \rightarrow Unit \rightarrow Apply Changes = YES to restore actively the parameters, for the AHU select "restart required" in Save/Load Menu.
- Since the parameter update is done in 2 stages, it is necessary to repeat the Parameter Restore g) procedure twice
- The Software update and Parameters restore procedure are completed. h)



INFORMATION

In case the restore procedure fails, all the parameters are set as default. So, unit, circuit configuration, alarm limits, sensor calibration, compressor run hours and starts, frequency parameters are anyway possible to update manually. In case parameters are lost, refer to service support for correct unit configuration.

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8.1 Description



Figure 131 (A) POL 468





(c)

(d)

Figure 10 a) USB-drive b) T-HMI c) LED d) Button

468.65/ST 30 D

Figure 11 BSP BUS LEDs

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LEDs for diagnostics

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LED BSP "Run / Stop": 3 colours (green, red, and orange)

Mode	LED	
SW update mode (download application or firmware)	Every second alternating between red and green	
Application loaded and is running	Green on	
Application loaded, but not running	Orange on	
Application not loaded	Orange flashes: 50 ms on, 1000 ms off	
Firmware error	Red blinking at 2 Hz	
Hardware fault	Red on	

Table G LED BSP meaning

8.1.1 USB-Drive specifications

- Type: USB 2.0
- Maximum: 32GB
- System: FAT32
- Current: 100mA

a) How to check if USB is supported SERVICE INTERFACE

Not all the software has this option, but most software will allow to check the compatibility of the SD card with the controller by following this procedure:

- a. Insert the service Password
- b. Go to the Save/Restore menu
- c. Insert the USB-Drive in the dedicated slot.



Figure 12 Compatible USB-Drive message

• If the SD Card status shows ReadWrite then the USB-Drive is supported



INFORMATION For some software version the string that verifies the status of the USB-Drive, is named "SD Card"

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1	Save/Restore		•	
	SD Card	ReadWrite		*
	Software Update	Idle	₽	
	Save Parameter	No	•	
	Status	Idle		
	Restore Parameter	No	•	
	Status	Idle		
	Save Memory	No	•	
	Reset Defualt	No	•	-

Figure 13 Compatible USB-Drive message

• If the SD Card status shows NoDevice then the USB-Drive is NOT supported





8.2 Update by USB-Drive (Service Interface)



INFORMATION

For NaYda Software, the service interface is available only from version 1.01A For PEGASO Software, the service interface is available only from version 1.05A

- 1. USB-Drive Save Parameters Procedure (Service Interface)
 - 1. Insert the USB-Drive into the controller USB-Drive slot



Figure 15 Controller dedicated USB-Drive slot

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- 2. Enter technician password
- 3. Go to the Main Menu → Save/Restore → "Save Parameter" → Yes



Figure 16 The Save/Restore menu could look different depending on software version



INFORMATION Parameter files are now written to the USB-Drive. Two PARAM files one in "UCF" and one in "BIN" format are stored on the USB-Drive. Copy and save these files into a new directory in the PC

2. USB-Drive Software Update Procedure (Service Interface)



WARNING

For PEGASO Software use this procedure starting from software version 1.05.A or following one For NaYda Software use this procedure starting from software version 1.01.A or following one

1. Upload all unzipped files of the software, to the root of the formatted USB-Drive.



WARNING

USB-Drive must contain only software .ucf files

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	∽ Ō	Cerca in Unità USB	(D:)
Nome ^	Ultima modifica	Тіро	Dimensione
PEGASO_1.16.A_Code.ucf	19/05/2022 12:29	File UCF	282 KB
PEGASO_1.16.A_HMI.ucf	13/05/2022 16:33	File UCF	50 KB
PEGASO_1.16.A_OBHVN.ucf	13/05/2022 16:38	File UCF	39 KB
PEGASO_1.16.A_Scope.ucf	13/05/2022 16:38	File UCF	84 KB
PEGASO_1.16.A_Web.ucf	13/05/2022 16:33	File UCF	167 KB
POL46xSTD_BSP_V1140.UCF	16/12/2021 17:53	File UCF	901 KB

Figure 17 Example of software unzipped in the root of the USB-Drive

2. Insert the USB-Drive into the controller USB-Drive slot



Figure 140 Controller dedicated SD card slot

- 3. Enter technician password.
- 4. Go to the Main Menu → Save/Restore → Software Update → Start.



Figure 18 Software Update in Save/Restore menu

 While software is updating, check the status of the LED: Result: First the LED blinks green. Then it blinks green / red, and at the end it lights up continuously orange

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6. Immediately turn OFF and ON the main switch.



WARNING

Once the software has been updated, the service HMI will not work because the parameters have been deleted. It is necessary to switch interface from EVCO to SIEMENS.

7. When done, on the user interface or service, check the menu \rightarrow About chiller. Result: Software version MUST be the latest version



Figure 19 About Chiller menu

USB-Drive Restore Parameters (Service Interface) 3.

- 1. Enter technician password
- While power is ON (LED = ON), insert the USB-drive containing the PARAM.ucf in the USB-port 2.
- Go to the Main Menu \rightarrow Save/Restore \rightarrow Restore Parameter \rightarrow Full 3.



Figure 20 Restore Parameter in Save/Restore Menu

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4. Go to Application Save (bottom of the main-menu) \rightarrow Yes.



Figure 21 Application Save in Main Menu

- 5. Remove the USB-drive from the USB-port
- 6. Go to Commission Unit \rightarrow Configuration \rightarrow Unit \rightarrow Apply Changes \rightarrow Yes.
- Since the parameter update is done in 2 stages, it is necessary to repeat the Parameter Restore procedure (from point 2 till point 6) 3 times to guarantee a complete upload of the the parameters. Result: The parameters are updated.



Figure 22 Apply Changes Menu directory



INFORMATION

In case the restore procedure fails, all the parameters are set as default. So, unit, circuit configuration, alarm limits, sensor calibration, compressor run hours and starts, frequency parameters are anyway possible to update manually.

In case parameters are lost, refer to service support for correct unit configuration.



CAUTION

To double check the parameters already copied, verify each setting according to the Manual Configuration procedure

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8.3 Update by USB-Drive (User Interface)

a) USB-Drive Save Parameters Procedure (User Interface)



INFORMATION For NaYda Software, Save/Restore functionality in the user interface (EVCO) is available from version 1.01A For PEGASO Software, Save/Restore functionality in the user interface (EVCO) is available from version 1.08A

1. Insert the USB-Drive into the controller USB-Drive slot



Figure 23 Controller dedicated USB-Drive slot

2. Enter technician password



WARNING Check your software before proceeding, the user interface menu changes according to the software version

- 3. Use the Save Parameter functionality to download PARAM.UCF file from controller to USB-Drive.
 - PEGASO Software: Go to page [14.06] Parameter Save →On
 - NaYda Software: Go to page [20.03] Parameter Save $\rightarrow On$



Software Pegaso



Software NaYda



Figure 24 Save Parameter EVCO HMI

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Wait 20 seconds. 4. Result: The file PARAM.ucf is saved in the USB drive.



INFORMATION

Parameter files are now written to the USB-Drive. Two PARAM files one in "UCF" and one in "BIN" format are stored on the USB-Drive. Copy and save these files into a new directory in the PC

USB-Drive Software Update Procedure (User Interface) b)



INFORMATION For NaYda Software, use this procedure starting from software version V1.01.A or following one For PEGASO Software, use this procedure starting from software version V1.12.A or following one

1. Upload all unzipped files of the software, provided by the factory, to the root of the formatted USB-Drive.



WARNING USB-Drive must contain only software .ucf files

	ٽ ~		(D:)
Nome ^	Ultima modifica	Тіро	Dimensione
PEGASO_1.16.A_Code.ucf	19/05/2022 12:29	File UCF	282 KB
PEGASO_1.16.A_HMI.ucf	13/05/2022 16:33	File UCF	50 KB
PEGASO_1.16.A_OBHVN.ucf	13/05/2022 16:38	File UCF	39 KB
PEGASO_1.16.A_Scope.ucf	13/05/2022 16:38	File UCF	84 KB
PEGASO_1.16.A_Web.ucf	13/05/2022 16:33	File UCF	167 KB
POL46x STD_BSP_V1140.UCF	16/12/2021 17:53	File UCF	901 KB

Figure 25 Example of software unzipped in the root of the USB-Drive

2. Insert the USB-Drive into the controller USB-Drive slot



Figure 26 Controller dedicated SD card slot

3. Enter technician password

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WARNING

Check your software before proceeding, the user interface menu changes according to the software version

 PEGASO Software: Go to page [23.02] Software Update →On NaYda Software: Go to page [20.02] Software Update → On

Software: NaYda





Software: Pegaso





Figure 27 Software Update EVCO HMI

- While software is updating, check the status of the LED: Result: First the LED blinks green. Then it blinks green / red, and at the end it lights up continuously orange.
- 6. Immediately turn OFF and ON the main switch.
- 7. When done, on the user interface, check the menu →About. **Result**: Software version MUST be the latest version.

c) USB-Drive Restore Parameters Procedure (User Interface)

INFORMATION

For NaYda Software, Save/Restore functionality in the user interface (EVCO) is available from version 1.01A For PEGASO Software, Save/Restore functionality in the user interface (EVCO) is available

For PEGASO Software, Save/Restore functionality in the user interface (EVCO) is available from version 1.08A

- 1. Enter technician password
- 2. While power is ON (LED = ON), insert the USB-drive containing the PARAM.ucf in the USB-port



WARNING

Check your software before proceeding, the user interface menu changes according to the software version

3. PEGASO software: Go to the page [14.07] Parameter Restore → 2 NaYda software: Go to the page [20.04] Parameter Restore → 2

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i





Figure 28 Parameter Restore EVCO HMI

4. PEGASO software: Go to page [23.00] Application Save → On NaYda software: Go to page [20.00] Application Save →On



Figure 29 Application Save EVCO HMI

- PEGASO software: Go to page [23.01] Apply Changes →On NaYda software: Go to page [20.01] Apply Changes → On
- 6. Since the parameter update is done in 2 stages, it is necessary to repeat the Parameter Restore procedure (from point 2 till point 5) 3 times to guarantee a complete upload of the the parameters **Result**: The parameters are updated.





Figure 30 Apply Changes EVCO HMI



INFORMATION

In case the restore procedure fails, all the parameters are set as default. So, unit, circuit configuration, alarm limits, sensor calibration, compressor run hours and starts, frequency parameters are anyway possible to update manually. In case parameters are lost, refer to service support for correct unit configuration.



CAUTION

To double check the parameters already copied, verify each setting according to the Manual Configuration procedure

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WARNING

It is recommended to use this procedure when the controller is not powered by the machine

- Save Parameters by user interface or service interface (SEE PREVIOUS PARAGRAPH) 1.
- Insert the USB-Drive into the controller USB-Drive slot 2.



Figure 31 POL468

- 3. Press the button. And keep pressed
- With the button still pressed, turn ON the main switch and power the unit 4. Result: The LED blinks green
- 5. Keep the button pressed Result: The LED blinks green/red
- Immediately release the button 6. Result: The LED lights up continuously orange
- Immediately turn OFF and ON the main switch 7.
- Check if the software version is updated by user or service interface (SEE PREVIOUS PARAGRAPH) 8. Result: Software version MUST be the latest version
- 9. Restore Parameters by user or service interface (SEE PREVIOUS PARAGRAPH)

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8.5 Update using Scope Light Application

a) Scope Light Application

a) Open the Climatix Scope Light application on your PC.



Figure 155 Climatix Scope Light Application

b) If the protocol window appears, just close this window by clicking on the X mark on the top right corner

S DefaultLight - Climatix SCOPE (Light)					-	a ×
Menu - 🛐 🗋 🐮 🕫 🔍 🛄 🗐 🗑 Connect - Serial						
Cation C Sate						4 6 4
1 Sauch		_				
CIERCE COme Deved						
SIEMENS						
	Protocol					
Recent Projects	Dre .	Laval	Information	Looper		
	C 0000 00 01 14 01 00 001	Lin	Inclusion Data damand	Cogger		
	2022-03-31 14-21 23,991	HT0	Application state changed	Project		
	2022-03-31 14-21-44 039	info	Application State changed	Project		
	2022-03-31 14-21 54 070	info.	Application State changed	Project		
	2022-03-31 14 23 08 720	Info	Connection State is reset i	Project	Close Protocol	
	2022-03-31 14 23 08 738	Warning	connection resets	Project		
	2022-03-31 14:23:17,637	Info	Connection State is establis	Project		
	2022-03-31 14:23:17,648	info.	Connection established	Project.		
	2022-03-31 14-23 17,682	Info	Application State changed	Project		
	2022-03-31 14:23:51,731	info	Application State changed	Project.		
	2022-03-31 14:24 11,733	Info	Application State changed	Project		
	2022-03-31 14:24:19,718	Info	Connection State is reset, I	Project		
	2022-03-31 14:24:19,725	Warning	connection resets	Project		
	2022-03-31 14:24:40,700	info	Connection State is no con	Project		
	2022-03-01 14-24-40,702	Warning	reconnect failed	Project		
	2022-03-31 14:24:40,704	Info	Connection closed	Project		
	2022-03-31 14-24-40.729	Warning	Connection to device her b	Project		
	2022/03/31 14:30:34.276	into	Project saved	Project		
	2022-03-31 14:30:34:254	into into	Connaction State is antable	Project		
Close page after project load	2022-03-31 14:30:34,356	Into	Connection state is established	Project		
Show page on startup	2022-03-31 14:30-34 442	info.	Application State changed	Project		
	2022-03-31 14-53-00 080	info	Project saved	Project		
Loader Control	2022-04-02 17 24 22 262	Info	Project saved	Project		• + ×
Files BSP	2022-04-02 17:25:01:543	Info	Project saved	Project		4 0
V OT LETL	2022-04-02 17:25 13,479	Info	Project saved	Project		
Type File Time GUID	2022-04-02 17 27:52,756	Info	Project saved	Project		
Application ADAM 3.06 A C. 2022-01-31 08:18:00 0409E2AA-E8A3-4D45-A	2022-04-02 17:31:33,963	Info	Project saved	Project		
HMI-Crif-Comp ADAM 3.06 A H. 2022-01-31 08:36:58 B54842C3-A3DB-4132-A	2022-04-02 17:41:53.710	Info	Project saved	Project		
Mapping-Comp ADAM 3.06.A_O 2022-01-31 08:43:32 F0042C42-DC63-4A14-9	2022-04-02 17:45:20,926	info	Project saved	Project		
HMI4Web ADAM 3.06.A 2022-01-31 08:37:06 6E1CFF5D-2DAC-4C68		_			·	
BACnet Client BACnet cov						
Ught-VersionADAM 3.05.A_S2021-09-30 08:00:10 4B158C82-D47B-4075-9	s #					

Figure 156 Main window in Scope Light

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Siemens POL 468 Controller to PC connection b)



INFORMATION

In this paragraph, scope light controller connection with Micro-usb cable is explained. For Ethernet cable connection refer to Paragraph 7. Scope Light - connection by ethernet cable

a) Go to the Settings Tab:



Figure 157 Setting window

- From the Target dropdown window select POL 46x b)
- From the Interface dropdown window select USB c)



INFORMATION

In this menu it can be selected the type of connection is intended to use; in this tutorial the USB connection is explained.

The USB to RJ45 service cable is available as a Daikin Spare Part: PN 10000109500





Click on the Save All Tabs to save the current settings. d)

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R. I. RM / C.F. 04878860586 R.E.A. 467651 - P.I. 01318801006



S DefaultLight - Climatix SCOPE Light (Light)		×
: 📶 Menu - 😒 🗋 🎉 🤊 (* 🔐 🔐 . Project 7	Disconnect - POL468_0D1939 USB	
Settings Settings Configuration Project Foot Note Target Diagnostics Data Points Parameter Up- and Download Documentation Watch Pages Schedulers Calendars Trend Online Archive	Communication Current Target: POL46x Applied Interface: USB Ergs Ergs Ergs Ergs Auth: Er	cation cation d) Saves all tabs cation d) Saves all tabs conserved tabs cache Files Export b) Select POL 468 c) Select USB

Figure 159 Communication settings

e) Connect the USB - RJ45 cable from the PC to the Siemens Controller



Figure 160 USB connection cable



INFORMATION

Once the cable is connected, automatically the Siemens controller drivers are installed on the PC. This operation usually takes just a couple of seconds. When driver installation is done, the POL468 device becomes available in the Device dropdown menu.

Select POL468 from the Device dropdown menu f)

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S DefaultLight - Climatix SCOPE Light (Light)

Setti	ngs		
Communicat	ion	Current Language	
Target:	POL46x	Application	~
Interface:	USB (h) Click Connect		ort
USB		enable	~
		Export Cache Files	
Device:	POL468_0D1939 ~	Export	
Auth:			_
		g) Select POL46	58
		from the Dropdo	wn)

Figure 161 Connection Settings

Setti	ngs		
Communicat	tion		Current Language
∐arget:	POL46x	~	Application ~
Interface:	USB	~	Engineering Unit Support
LISB			enable ~
050			Export Cache Files
Device	POL 402 001030		Export
Device.	FOE400_001333 ~		
Auth:			
			Please enter your PIN

Figure 162 Pin = Daikin Service Password

- g) Click on the Connect Button
- h) Put the Daikin Service Password 6363 when asked for the PIN

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INFORMATION i

On board controller: when connecting controller, parameters are read by Scope Light. Before proceeding with any action on Scope Light, the parameter reading process must be completed.

Reading object: 0x2201 'U\EstopSwAl'.	,	
🐼 Browser 🛕 Alarm 🕕 Protocol 💷 Loader		

Figure 163 Scope reading parameters

c) Scope Parameters Save procedure

a) On the project page, click on the Parameter Up – and Download then click on the Target -> PC button

S DefaultLight - Climatix SCOPE Light (Light)		– 🗆 X
🚰 Menu 🗸 🛐 🗋 🥻 🦃 🍽 🔛 🔛	Disconnect - POL468_0D1939 USB	
Project 👻 🕂	2 Parameter Load* Settings	4 ▷ 🗙
Project	Parameter Load Settings Parameter Load Settings Parameter Loading Restore Selection All instances with mandatory members All object instances with all members Only instances from type: Calendar/Scheduler Trend	Target -> PC
Data Points Data Points Parameter Up- and Download Parameter Up- and Download Watch Pages Schedulers Calendars Calendars Trend Online Archive	COM-Module Enabled Objects Description File Time Type	

Figure 164 Parameter Up - and Download

b) A new file will appear on the window below and it is possible to choose the name of this file. Confirm the name by pressing enter on the PC Keyboard and the parameter download procedure starts. The procedure is completed when the progress bar goes to 100%

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Project	▼ ₽	Settings			4 Þ 🗙
S DefaultLight Settings Configuration Project Target Target Target Diagnostics Watch Pages Schedulers Calendars Onine Archive	and Download	Parameter Loading Restore Selection Image: All instances with mandatory members All object instances with all members Only instances from type: Calendar/Scheduler Trend COM-Module Enabled Objects Description File Parameter-POL468 Parameter-POL	PC> Target Once parameter file name is confirmed with the enter buttom the procedure starts Time Type moge Progress bar	Target -> PC	

Figure 165 Parameter Up - and Download

d) Scope Software upload procedure

a) Enable the Loader window by going to: Menu →View→Loader

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Recent Projects Imperiation Communication Communication Application Imperiation Imperiation Imperiation View Startup Alt-S Paplication Imperiation View Startup Alt-S Paplication Imperiation View Startup Alt-S Paplication Paplication View Startup Alt-A Paplication Paplication View Alarm Alt-A Paplication Export Paplication View Restore Default Lavout. Alt-A Paplication Export Export View Restore Default Lavout. Alt-A Paplication Export Export Observed Celendas Fisheline Common	Project •		🔹 🕂 🎵 Settings				4 Þ
Application View Startup Alt-5 Figneering Lht Support Protocol Alt-P Protocol Alt-P Prot	Recent Projects		Communication		Current Language		
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Heip Settings F2 enable enable Exit Alarm Alt+A Export Cache Files Export Cache Files Data Portis Loader Alt+I D01939 Exit Exit Documentation Calendars Calendars Enable of calebe loader tab. Enable of calebe loader tab. Enable of calebe loader tab. Color Calendars Calendars Enable of calebe loader tab. Enable of cal	View 🕨	S St	artup Alt+S	~	Engineering Unit Support		
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Figure 166 Enable / Disable Loader Window

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Via Giuseppe Ferrari, 31/33





S DefaultLight - Climatix SCOPE Light (Light)	B Disconnect - POLISS 001020 LISP	- 🗆 X
Project •	Settings	X ◊ ▷
	Communication Target: POL46x V Interface: USB V USB	Current Language Application Engineering Unit Support enable Export Cache Files Export
Data Points Data Points Provide Typ- and Download Documentation Watch Pages Schedulers Calendars Loader Control Files BSP Auto Upgrade	Device: POL468_0D1339 Auth:	Software files window
Type File Time Ø Application MBRTCode.ucf - I MMICrif-Comp HMIcone oucf - I Mapping, comp 0BH/Neonp.ucf - I MMIAWeb HMI4Web - I MMI4Web HMI4Web - I MAIAWeb BACnet Clerit BACnet Clerit I Ught-Version ScopeConfig.ucf	GUID Target GUID ABE19033-3DA7 BC7BBEA0 2005 A331ACC1837A 18D9500E3-BC2B button 78277C61-411E-	Message 4EB0-8AA3-3ECA2AF8C0CC 4393-A78C-E848521F5FEF 4372-8082-114FEF08E11 44F3-9859-57A43071E1FD 4543-A531-156C84118E56
Load Cancel		

Figure 167 Loader Window

- b) Double click on the first raw in the Loader Window The Browse window will appear
- Copy the output folder address to be able to create a shortcut of this folder on the desktop. In this folder c) we need to copy the Software files later.

S DefaultLight - Climatix SCOPE Light (Light)		-	
🖥 Menu 🗸 🛐 🗋 🎉 🖃 🝽 🔚 🔛	Disconnect - POL468_0D1939 USB		
Project 👻 👎	Settings		4 Þ 🗙
DefaultLight Settings Configuration Project Fort Note Target Dispositios Data Points Data Points Data Points DefaultLight Commentation Watch Pages Schedulers Others	Communication Target: POL46x Interface: USB USB Device: POL468_0D1939 Auth: Double click one of the six	Current Language	
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Load Cancel			

Figure 168 Copy the Output folder address

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Open the file explorer on your computer and paste the Output folder address in the address bar d)

- → ✓ ↑ 📜 C:\Users\andrei.balan\AppData\I	.ocal\SBT\RainbowScope\DefaultLi	ght\Output	v Ŭ	, Cerca in Output	
 OneDrive - Daikin Applied Europe S.p.a 	^ Nome ^	Ultima modifica	Tipo	Dimensione	
S Questo PC	PEGASO 1.16.A C	ode.ucf 04/03/2022 07:44	File UCF	440 KB	
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Desktop	PEGASO_1.16.A_C	BHVN.ucf 02/03/2022 09:00	File UCF	76 KB	
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🥩 Rete					
		of the File Explor	er		

Figure 169 Paste the Output folder address in the address bar of the File Explorer

e) Create a shortcut of the Output folder on your desktop



Figure 170 Create Output folder shortcut

f) Open the shortcut of the output folder from desktop. Make sure to delete all existing files and copy in this folder only the unzipped files of the software you need to update on the Siemens Controller.

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From Scope Light Loader Control window select now the files to be updated on the Siemens Controller: g) Double Click on the raw of Loader window and when the browse window appear, select the file

S DefaultLight - Climatix SCOPE Light (Light)		– 🗆 X
i 🎢 Menu 🖌 🛐 🗋 🥻 🦃 🥙 🔛 🔜 🗐	Disconnect - POL468_0D1939 USB	
Project 👻 👎	Settings	4 Þ 🗙
DefaultLight A Settinge	Communication	Current Language
Gentings	Target: FOLHox V	S Browse for Application - C ×
- JY Project	Interface: USB V	:\Users\andrei.balan\AppData\Local\SBT\RainbowScope\DefaultLight\Output
Solution Note	LICD	Files Modified Size
Inget	038	ATLAS_4.03.A_Code_687.ucf 2022-03-04 07:44:16 440 KB
- Diagnostics		
🖻 🥁 Data Points	Device: POL468_0D1939 ~	
- 2 Parameter Up- and Download	Auth:	
Watch Pages 1	Double click	2) Select the
- O Schedulers		Application file
Calendars	on Application	A b b manual and
Loader Control		- # X
Files BSP Auto Upgrade		4 Þ
Type File Time	GUID met GUID	OK Carcel
Application MBRTCode.ucf -	- A6B19093-3DA7-4	EB0-8AA3-3ECA2AF8C0CC
HMI-Cnf-Comp HMIcomp.ucf -	- BC7BB6A0-20D5-	4393-A7BC-EB48521F5FEF 3) Select OK
Mapping-Comp OBHVNcomp.ucf -	- A931A0C1-837A-4 19D9D0E3-BC28-	372-8082-E114EFC88E11 44E3-9859-57443071E1ED
BACnet Client BACnet.csv -		
Light-Version ScopeConfig.ucf -	- 7B277C61-411E-4	543-A531-156C84118E56
Load Cancel		
🛕 Alarm 🕦 Protocol 👜 Loader		

Figure 171 Select software files

- h) Repeat "step g" for all the remaining files: HMI-Cnf-Comp, Mapping-Comp, HMI4Web, Light-Version-Config except BACnet Client, until all the software files are selected
- Before the update can begin, the application on the controller needs to be stopped. To do so the controller i) can be updated.

To stop the controller application, go to: Menu \rightarrow Application \rightarrow Stop

Project		👻 🕂 🎢 S	ettings		
Recent Project	ts 🔸	Commun	ication	Current Language	
Application	• 🔘 s	Start Target	POL46x	Application	
View	, 🛈 s	itop Interfac	e: USB	Engineering Unit S	Support
Help	•			enable	
Exit Diagn Data Point Paran Docu Docu Watch Calen Docu Trend	iostics ts neter Up- and Dowr mentation h Pages dulers dars	nload Auth:	e: POL468_0D1939 Stop the app Siemens	Dilication on the scontroller	

Figure 172 Stop controller application

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Figure 173 Controller in Software update mode

j) If the Connection to device has been lost! Window appears, press OK and recconect again to the controller.

Climatix	SCOPE	
8	Connection to device has been lost!	
	Show this message again	
		ОК

Figure 174 Connection lost warning



INFORMATION

After the application stops on the controller, this could result unavailable on the Scope Light Application, and it could be necessary to disconnect and reconnect the USB cable until the controller becomes again available and is possible to reconnect by clicking on the Connect button.

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Figure 175 Controller not available

k) Once reconnected, a warning window will reappear to let you know that the application has been stopped on the target (controller). Acknowledge this warning by pressing OK.

Project		×
8	Application on target stopped or not loaded.	
	ОК	

Figure 176 Application stopped warning

I) It's possible now to start software update by clicking on the "Load" button on the loader control window.

Loader Control					
Files BSP					
Type Application HII-Cnf-Comp Mapping-Comp HII-Web BACnet Client	File PEGASO_1.16.A_Code.ucf PEGASO_1.16.A_HMI.ucf PEGASO_1.16.A_OBHVN.ucf PEGASO_1.16.A_Web.ucf BACnet.csv	Time 2022-03-04 07:44:16 2022-03-02 09:08:14 2022-03-02 09:00:54 2022-03-02 09:08:26 -	GUID F4D04DCD-23A2-42AE 9A5C105D-64B1-45C3-9 2DDFB21D-D707-47DB D01CF41A-4476-49ED	- Start Software	update
Light-Version-Config	PEGASO_1.16.A_Scope.ucf	2020-12-23 16:22:28	D656FAC2-411A-4C58-A	•	
Load	Cancel				



m) The software update is completed when on the Message column all the voices show "completed"

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Loader Control					
Files BSP					
Type Application HMI-Cnf-Comp Mapping-Comp HMI4Web BACnet Client Ught-Version-Config	File PEGASO_1.16.A_Code.ucf PEGASO_1.16.A_HMI.ucf PEGASO_1.16.A_OBHVN.ucf PEGASO_1.16.A_Web.ucf BACnet.csv PEGASO_1.16.A_Scope.ucf	Time 2022-03-04 07:44:16 2022-03-02 09:08:14 2022-03-02 09:00:54 2022-03-02 09:08:26 - 2020-12-23 16:22:28	GUID F4D04DCD-23A2-42AE 9A5C105D-64B1-45C3-9 2DDFB21D-D707-47DB D01CF41A-447C-49ED - D656FAC2-411A-4C58-A	Target GUID Software update Completed	Message Completed Completed Completed Completed
Load	Cancel				

Figure 178 Software update completed

n) Restart the application on the controller by selecting Menu \rightarrow Application \rightarrow Start

S Def	faultLight - Climatix S	COPE (Light)	
: 🔐 N	1enu 🛛 🔀 🗋 🥻	🔊 (* 🔚 🔛 👘 Disco	onnect - POL468_0D1939 USB
	Project	•	
	Recent Projects	•	Current Language
	Application	Start	Application ~
	View	Stop	Engineering Unit Support
0	Help	Start application on targ	et system 🗸 🗸
0	Exit		Export Cache Files
De	th:	11939 ~	Export
		Star	t Target Application

- Figure 179 Start Target Application
- o) Once the software upload has completed and the controller restarted, check in the About Chiller menu that the actual software version corresponds to the one just installed. In case the software version does not correspond, check that you have the correct software version for the controller copied on the output folder repeat the software update procedure.

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Figure 180 About Chiller menu

p) Once the software is successfully updated, it is possible to restore the parameters on the controller.

e) Scope Parameter Restore procedure

- a) From the Project page click on the Parameter Up- and Download
- b) Step 1) Select the option All object interface with all members
- c) Step 2) Select the desired parameter file
- d) Step 3) Click on the PC→Target button and confirm the parameter upload
- e) Parameter upload procedure finishes when the progress bar arrives at 100% and disappears



Figure 181 Parameters upload procedure

- f) Recycle the controller by removing the power supply or select "Apply changes" in menu Commission Unit
 → Configuration → Unit → Apply Changes = YES to restore actively the parameters.
- g) Since the parameter update is done in 2 stages, it is necessary to repeat the Parameter Restore procedure twice
- h) The Software update and Parameters restore procedure are completed.

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In case the restore procedure fails, all the parameters are set as default. So, unit, circuit configuration, alarm limits, sensor calibration, compressor run hours and starts, frequency parameters are anyway possible to update manually. In case parameters are lost, refer to service support for correct unit configuration.



CAUTION

To double check the parameters already copied, verify each setting according to the Manual Configuration procedure

Scope Light – connection by ethernet cable 9

If you prefer to connect to scope via an ethernet cable, follow this procedure.

Configure the TCP/IP properties of the ethernet card of the laptop 9.1



INFORMATION

Be aware if the chiller controller uses different IP address than the standard one to change in Scope the host address. In order to make communication possible with the build in Ethernet card of the laptop, the TCP/IP properties of the card will need to be customized. Administrator rights maybe required for this procedure

Select via Window start button the Control Panel and then select the LAN local area connection type a)



Figure 182 Control Panel, Start MENU

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Network and Sharing Center		– 🗆 X
← → × ↑ 💆 > Control Pa	nel > Network and Internet > Network and Sharing Center v Ō	م
Control Panel Home	View your basic network information and set up connections	
Change adapter settings	View your active networks	
Change advanced sharing settings	daikinapplied.eu Access type: Internet Domain network Connections: Ethernet 4	
Media streaming options	· · · · · · · · · · · · · · · · · · ·	
	Change your networking settings	
	Set up a new connection or network	
	Set up a broadband, dial-up, or VPN connection; or set up a router or access point.	
	Troubleshoot problems	
	Diagnose and repair network problems, or get troubleshooting information.	
See also		
Internet Options		
Windows Defender Firewall		

Figure 183 Control Panel, Network and Sharing Center

b) Apply below example for the TCP/IP protocol, these will ensure to establish the communication with the controller. The Ethernet cable is connected on the T-IP port of the controller.

Ethernet 4 Status	×	Ethernet 4 Properties ×	Protocollo Internet versione 4 (TCP/IPv4) Properties
General		Networking Sharing	General
Connection IPv4 Connectivity: IPv6 Connectivity: Media State: Duration: Speed: Details	Internet No network access Enabled 00:20:10 1.0 Gbps	Connect using: Intel(R) Ethemet Connection (3) I218-LM Configure This connection uses the following items: Configure This connection uses the following items: Configure This connection uses the following items: Configure This connection uses the following items: Configure Configure This connection uses the following items: Configure	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. Obtain an IP address automatically Use the following IP address: IP address: IP address: IP address: I92 . 168 . 1 . 100 Subnet mask: 255 . 255 . 255 . 0 Default gateway:
Activity Sent Bytes: 3,743,402	Received 2,585,090	Driver protoc LLDP Microsoft Protocollo Int et versione 6 (TCP/IPv6) S Install Properties Description TCPC 4(B, Detection of 6(B, Detection of 6	Obtain DNS server address automatically Use the following DNS server addresses: Preferred DNS server: Alternate DNS server:
Properties Disable	Diagnose	comunicazione tra diverse reti interconnesse.	Validate settings upon exit Advanced
	Close	OK Cancel	OK Cancel
			1



Connect the Ethernet cable from the laptop to the controller c)

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Figure 185 ETHERNET Cable



Figure 186 Ethernet connection cable

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a) Scope light connection

a) Go to the Settings Tab:



Figure 187 Settings Window

- b) From the Target dropdown window select the controller you intend to use (POL 688, POL 687, POL 638, POL 468)
- c) From the Interface dropdown window select TCP/IP
- d) In the Host text box write 192.168.1.42
- e) In the Port text box write 4242
- f) Click on the Save All Tabs to save the current settings.
- g) ONLY FOR POL688, In the Auth text box write password: SBTAdmin!



Figure 188 Communication settings



INFORMATION

Once the cable is connected, automatically the Siemens controller drivers are installed on the PC. This operation usually takes just a couple of seconds. When driver installation is done, the POL device becomes available in the Device dropdown menu.

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- h) Click on the Connect Button
- i) Put the Daikin Service Password when asked for the PIN

S DefaultLight - Climatix SCOPE Light (Light)		S DefaultLight - Climatix SCOPE Light	(Light)
📲 Menu 🗸 🛐 🗋 🍞 🕅 🔛 💭 🖓 Co	nnect 192.168.1.42 • TCPIP	Menu - S 🗋 🎉 🕫 🥲	🚽 🔛 bisconnect 🝷 192.168.1.42 TCPIP
Settings		Communication	Current Language
Communication	Current Language	Target: POL687	✓ Application ✓
Target: POL687 ~	Application ~	Interface: TCP/IP	Engineering Unit Support
Interface: TCP/IP ~	Engineering Unit Support	TCP/IP	enable ~
TCP/IP Host: 192.168.1.42 ~ Port: 4242 Auth:	Engineering Unit Support	Host: 192.168.1.42 Post: 4242 Auth:	

Figure 189 Scope Ethernet connection

i	INFORMATION On board controller: when connecting controller proceeding with any action on Scope Light, the p	r, parameters are read by Scope L parameter reading process must be	ight. Before completed.
	Reading object: 0x2201 'LI\Eston SwAl'		
	riddang object. 0x2201 o teatopowry.		
	🕵 Browser 🛕 Alarm 🕦 Protocol 📾 Loader		

Figure 190 Scope reading parameters

You have successfully connected Scope Light to the controller, now you are able to proceed with "Save Parameters", "Software Upload" and "Parameter Restore" procedure

Refer to previous paragraphs

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Г		r				
	Model	Software	Function to download "PARAM.UCF" file from controller to SD/USB	Function to download "PARAM.UCF" file from SD to controller	Software Update: Function available to download directly software using string "Software Update" in Save/Restore menu	
	EWAQ~G	GIZMO	"Save to File (Yes)"	"Rstr from file"	Not Available	
	EWYQ~G	OIZINIO				
	EWAQ~E/F	ACZC	"Save to File"	"Rstr from file"	Not Available	
	EWYQ~F	ACZ-H	"Save to File (Yes)"	"Rstr from file"	Not Available	
	EWAD~E	MNG	"Save to File (Yes)"	"Rstr from file"	Not Available	
	EWAD~D					
	ERAD~E					
	EWAD~C			"Rstr from SD"	Not Available	
	EWAD~CZ	AWS	"Save to SD"			
	EWAD~CF					
	EWAD~TZ			"Restore Parameters"	Available	
	EWAH~TZ		"Save Parameters"			
	EWAD~TZ B					
	EWAH~TZ B	ATEAS				
	EWAD~TZ C					
	EWAH~TZ C					
	EWAD~I B	MNG*	"Save to File (Yes)"	"Rstr from file"	Not Available	
	EWAD~T	A\W/6*	"Sovie to SD"	"Potr from SD"	Not Available	
	EWAD~T C	AWS	Save to SD	KSU HOIT SD		
E	EWAT~B B	NASH	"Save Parameters"	"Restore Parameters"	Available	
EWYT~B B		NASH_HP	"Save Parameters"	"Restore Parameters"	Available	
EWWQ~G						
	EWHQ~G	WaterStream	"Save to File (Yes)"	"Rstr from file"	Not Available	
	EWLQ~G					
	EWLQ~L					
	EWWQ~L					
	EWWD~J		"Save to File (Yes)"	"Rstr from file"	Not Available	
	EWWD~G					
	EWWD~I	EWWD				
	EWLD~I					
l	EWLD-J					
	EW/WO~B					

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INTERNAL USE ONLY

EWWD~H	PFS_3.30.A Only POL 687	"Save to File (Yes)"	Not Available	Not Available	
EWWD~VZ					
EWWH~VZ	ADAM	"Save to SD (Yes)"	"Rstr From SD"	Not Available	
EWWS~VZ					
EWYD~4Z		"Save Parameters"	"Restore Parameters"	Available	
EWYH~4Z	EVE				
D-AHU Modular	Mod_Airstream	"Save Params"	"Load from SD"	Not Available	
D-AHU Professional	Pro_Airstream	"Save Params"	"Load from SD"	Not Available	
AHU Digital	D-Stream	"Save Params"	"Load from SD"	Not Available	
Modular Light Siemens	Evolve	"Settings save -> SD"	"Settings load <- SD"	Not Available	
EWAT~CZ	DECASO	"O D I "	"Destans Demonster"	Assellation	
EWYT~CZ	PEGASO	Save Parameter	Restore Parameter	Available	
EWWQ~KC	NaYda	"Save Parameter"	"Restore Parameter"	Available	
EWAD~TZ D					
EWAH~TZ D	ETRA	"Save Parameter"	"Restore Parameter"	Available	
EWAS~TZ D					
EWAD~MZ D					
EWAH~MZ D					
EWAT~B C	ARES	"Save Parameter"	"Restore Parameter"	Available	



INFORMATION

AWS and MNG software are compatible for different compressors model, before installing the software check the compressor model. *MNG Software:* HSx3118, HSx3120, HSx3122

AWS Software: HSx192, HSx204, HSx215, HSx232, HSx263, HSx269, HSx241



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