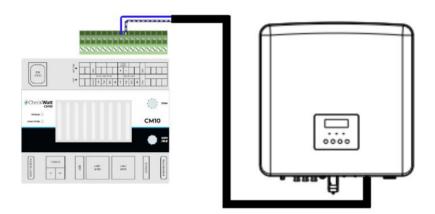
#### Installation manual CheckWatt CM10 and Solax inverter X1 Hybrid/X3 Hybrid/X1 Retro-Fit/X3 Retro-Fit Updated 2025-04-10

Installation of CheckWatt CM10 and the Solax inverters is performed according to their manuals. This manual describes how communication between the CheckWatt CM10 and Solax inverter is established.

Communication between CM10 and inverter is carried over modbus RTU (RS-485) via ethernet cable CAT6 FTP.



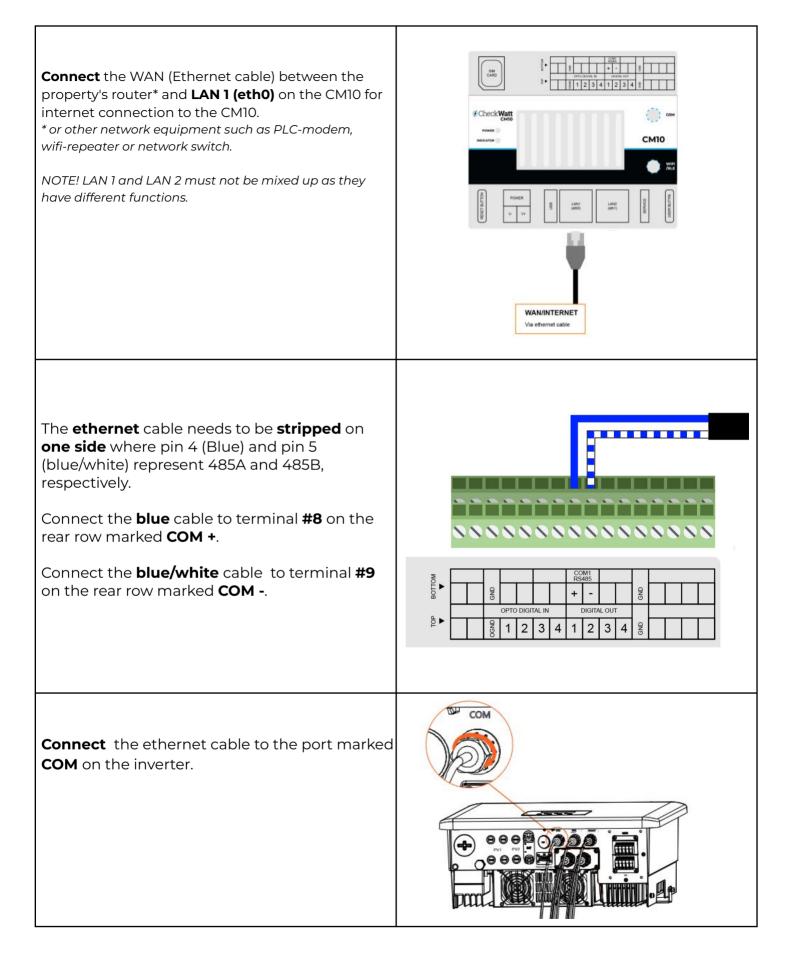
### COM PIN Definition

Пп	-1 	1	2	3	4	5	6	7	8
ЦШ	€	Drycontact_A(in)	Drycontact_B(in)	+13V	485A	485B	GND	Drycontact_A(out)	Drycontact_B(out)

# @CheckWatt

Gamlestadsvägen 18B 415 02 Göteborg SWEDEN

#### Installation: Internet connection and communication



# @CheckWatt

Gamlestadsvägen 18B 415 02 Göteborg SWEDEN

## Firmware update

The inverter needs to be updated by Solax support. This update provides registers for the CM10 to control the Solax inverter. There is also an update that enhances the heating elements in SolaX T30 batteries.

Send the following email to SolaX.

To: <a href="mailto:service.nordic@solaxpower.com">service.nordic@solaxpower.com</a> Subject: Solax Inverter Update for VPP Services with CheckWatt [SERIAL NUMBER]

Please update the following system for VPP Services with CheckWatt. Inverter model: Solax X3 Hybrid G4 S/N: XXXXXXXXXXXXX Required version: ARM: 1.42 or above. DSP: 1.43 or above.

[Following part only if it is a T30 battery] Battery model: XXXXXXXXXXXXXX Required version: BMS 4.00 or above.

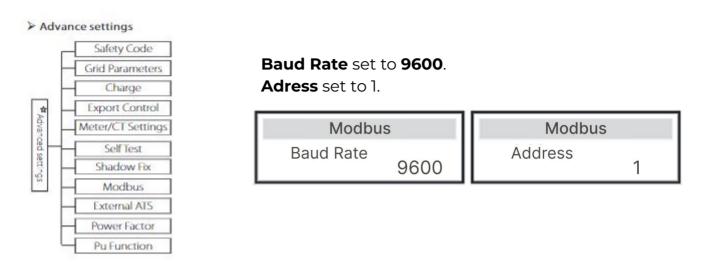
Regards [Name]



Gamlestadsvägen 18B 415 02 Göteborg SWEDEN

## Settings

To ensure proper communication, the baud rate must be set in the SolaX inverter. This can be done under Advanced Settings.



#### Verification charge/discharge

If charge or discharge does not work, double check the settings for Backup mode.

It is possible to set max and min SoC in backup mode.

Set **Min SoC: 15%** Set **Charge battery to: 100%** to avoid any restrictions. Backup mode > Min SOC:

15%

Backup mode > Charge battery to 100%

Do **not** change the default password. If it is changed, the CM10 can not control the inverter.

#### Verification of RS-485 cabling

There have been reports of a sensitive RJ45 port on the inverter. The following values have been measured with a multimeter on a working installation.

GND - Pin 4 (blue): 4.5 V GND - Pin 5 (blue/white) 0V Pin 4 (blue) - Pin 5 (blue/white): 2.3 V



Gamlestadsvägen 18B 415 02 Göteborg SWEDEN

## Additional settings

The T30 batteries feature built-in heating that can be activated when installed in cold environments, helping to maintain performance despite low temperatures.

Navigate to <b>Battery heating</b>	Battery Heating				
located under Advanced settings	Battery Heating				
Battery Heating should be set to <b>Enable</b>	Enable		Save		
Start time should be set to <b>00:00</b>		Heating Period 1			
End time should be set to <b>23:59</b>	Start time				
Heating Level should be set to High	00:00		Save		
	End time				
	23:59		Save		
		Heating Level			
	Heating Level				
	High		Save		



Gamlestadsvägen 18B 415 02 Göteborg SWEDEN