

Installation manual
CheckWatt CM10 and GroWatt Hybrid inverter
MOD 3-10KTL3-XH serien
MID 11-30KTL3-XH serien
Updated 2024-10-11

Installation of CheckWatt CM10 and GroWatt hybrid inverter MOD 3-30KTL3-XH should be done according to the respective installation manuals. The following documentation specifically describes how communication is established between CheckWatt CM10 and GroWatt hybrid inverters.

Communication between the CM10 and the GroWatt hybrid inverter is carried using Modbus RTU via twisted pair copper cable RS485.

The inverter needs to be updated to the latest software version.
Communication version number needs to be ZDBC-0008

Max inverters per CM10: 1

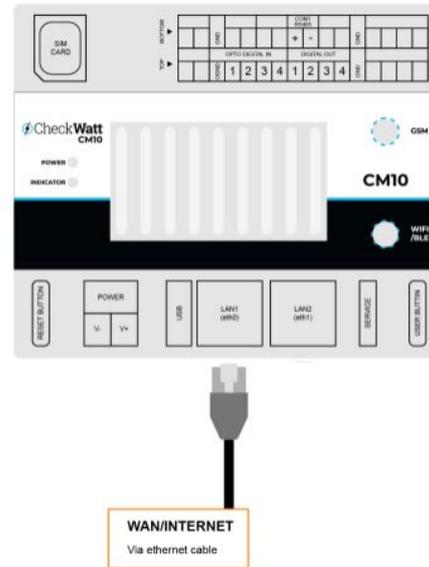


Installation: Internet connection and communication

Connect the WAN (Ethernet cable) between the property's router* and **LAN 1 (eth0)** on the CM10 for internet connection to the CM10.

** or other network equipment such as PLC-modem, wifi-repeater or network switch.*

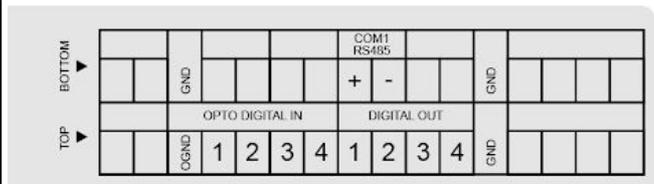
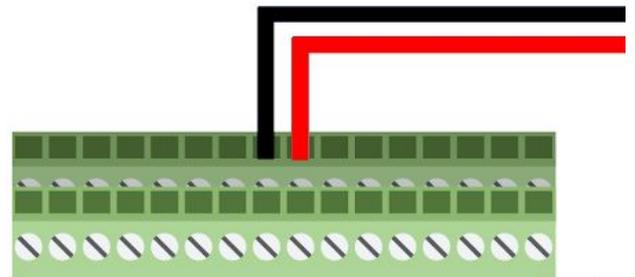
NOTE! LAN 1 and LAN 2 must not be mixed up as they have different functions.



Connect cable A (black in the image) to the rear row terminal #8 marked **COM+**.

Connect cable B (red in the image) to the back row terminal #9 marked **COM -**.

NOTE: Make sure not to mix up the polarity of these wires as this will result in the communication failure.

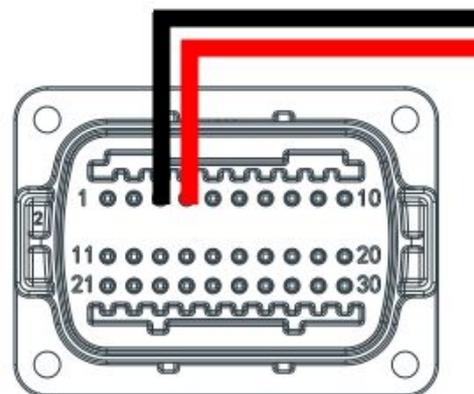


These two cables then needs to be connected to the inverter's **COM port**.

Cable A (black in image) connect to **terminal 3** (RS485A1).

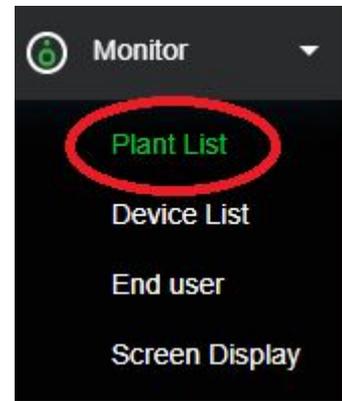
Cable B (red in image) connect to **terminal 4** (RS485B1).

Note: The GroWatt smart meter should be on a separate communication on terminals 5 & 6; do not mix these up.



Installation: Firmware Growatt inverter

1. Select **plant list** under **monitoring**.



2. Select **View plant**.



3. Scroll down to **My Photovoltaic Device** and hover the question mark next to **Device Serial Number**

**The inverter needs to be updated to the latest software version.
Communication version number needs to be ZDBC-0008**

My Photovoltaic Devices

All Device →

A screenshot of a web application's 'My Photovoltaic Devices' page. The page has a light blue header with the title 'My Photovoltaic Devices' and a link 'All Device →'. Below the header, there is a card for a single device. The card contains the following information: '(1)' in a blue box, 'Device Serial Number: ZDBC0008', 'Status: Standby', 'Update Time: 2023-08-14 11:05:55', 'Rated Power(kW): 10', 'User Name: ZDBC0008', 'Today(kWh): 1.2', 'Current Power(kW): 1.08', and 'History Data' with a grid icon. A tooltip is open over the 'Device Serial Number' field, displaying the following details: 'Version: DNAA035100', 'Communication version number: ZBDB-0006', 'Mode: undefined', 'Build number: DN1.0', and 'Device Model: MOD 10KTL3-XH(BP)'. There is also a 'Yes' button at the bottom of the tooltip.

Extra information Growatt

Activate / Deactivate VPP-mode

To perform a manual test, VPP mode must be deactivated.

In OSS, a register input can be sent to register 30100.

Value: 1 VPP mode activated.

Value: 0 VPP mode deactivated.

Manuell charge/discharge

These settings are made in OSS.

Under EMS, activate Grid Charging and set the desired charging power.

Then set up a schedule.

Battery First - the battery is charged with the desired power.

Grid First - the battery is discharged with the desired power.

Remember to activate VPP after the test is complete.

Set Inverter

On grid function setting

Regulation parameter setting

Q(V)setting

Time of Use Setting

Export limit setting

Set Inverter On/Off Turn On

Time Slot 1 Battery First 10 00 12 00 Enable

Time Slot 2 Load First 00 00 00 00 Disable

Time Slot 3 Load First 00 00 00 00 Disable

Time Slot 4 Load First 00 00 00 00 Disable

Yes No

Troubleshooting

See [troubleshooting guide](#) from Growatt.