

Installation manual

CheckWatt CM10 and Deye inverter

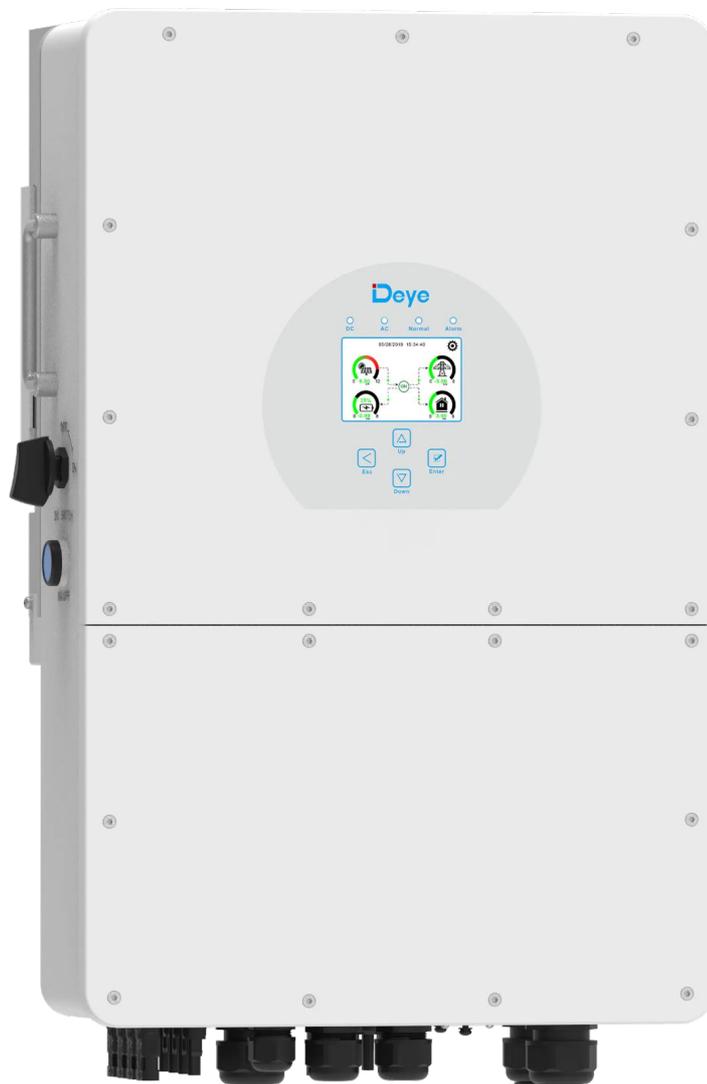
Updated 2025-01-20

SUN-5/6/8/10/12/15/20/25K-SG01HP3-EU

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

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

Max inverters per CM10: 1



Firmware update inverter

The inverter needs to be updated to communicate with CheckWatt CM10. This is done remotely by Deye. Send the email below to service@deye.com.cn.

To: service@deye.com.cn

Subject: Deye Inverter Update for VPP Services with CheckWatt [SERIAL NUMBER]

Please update the following system for VPP Services with CheckWatt.

Inverter model:

S/N: XXXXXXXXXXXXXXXX

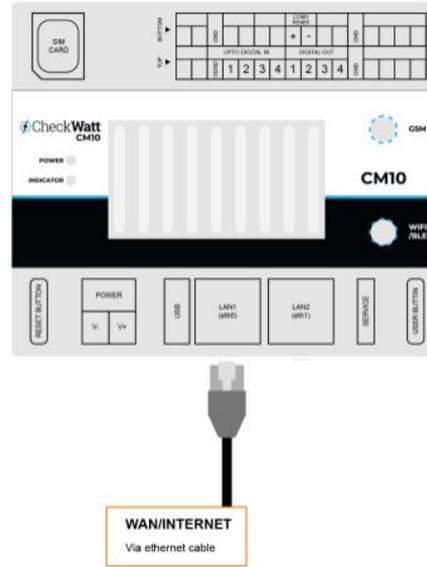
Regards [Name]

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.

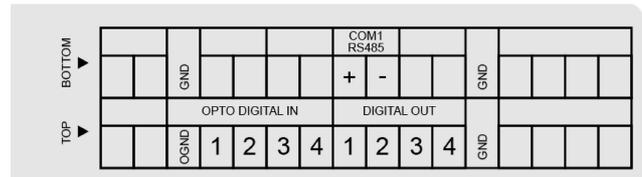
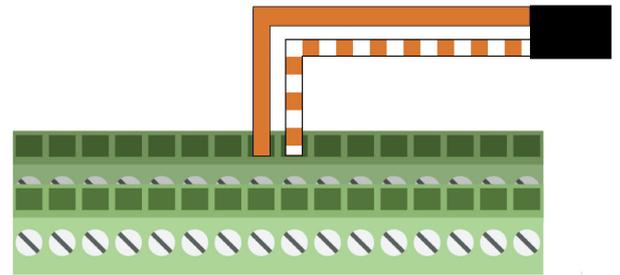
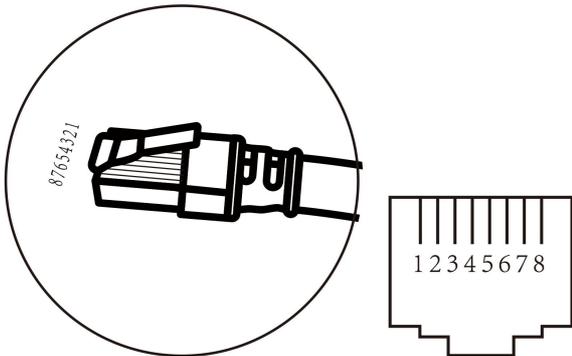
NOTE! LAN 1 and LAN 2 must not be mixed up as they have different functions.



The **Ethernet cable** needs to be **stripped** on **one side** where pin 1 represents 485_B and pin 2 represents 485_A.

Connect **485_A (orange)** to terminal #8 on the rear row labeled **COM +**.

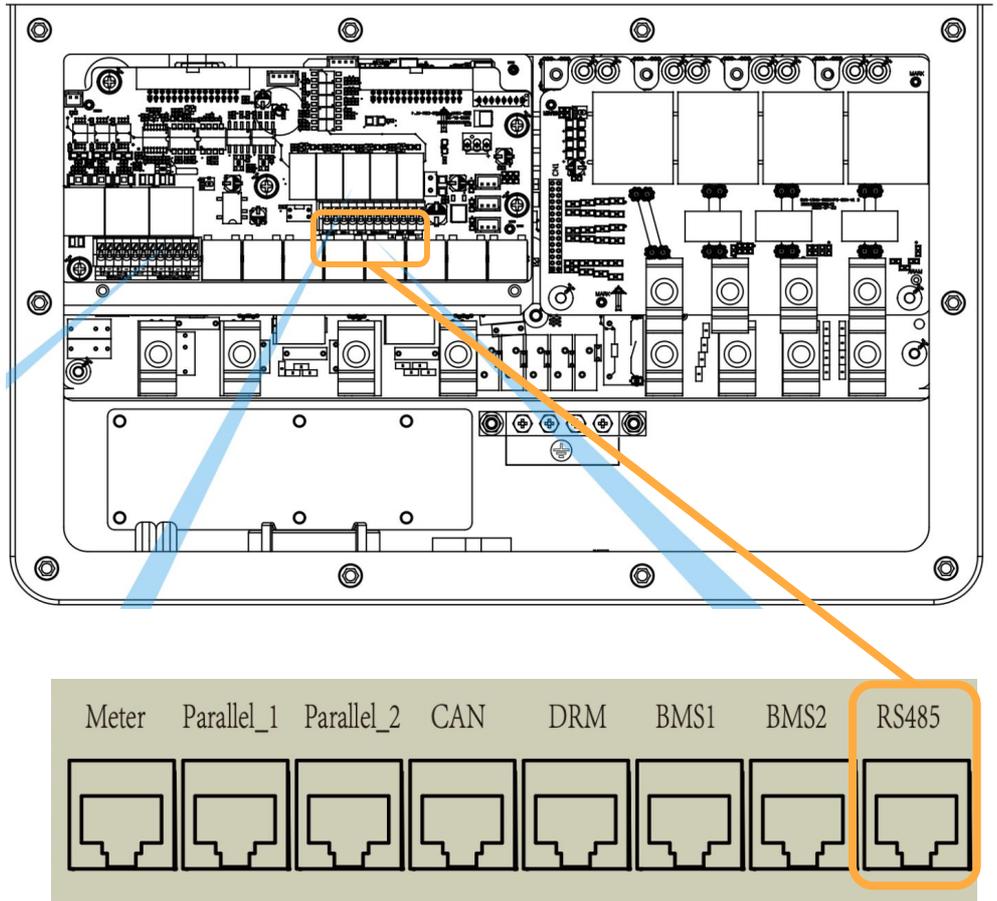
Connect **485_B (orange/white)** to terminal #9 on the rear row labeled **COM -**.



No.		Modbus port
1		485_B
2		485_A

Installation: Internet connection and communication

Connect the ethernet cable from CM10 to the inverter on the port labeled **RS485**.



Inverter settings

Advanced Function Setup Menu

Under **Advanced Function (Paral. Set3)** set the **Modbus SN** to **01**

The screenshot displays the 'Advanced Function' setup menu. At the top, the title 'Advanced Function' is shown in a blue header. Below this, there are three radio button options: 'Parallel' (unchecked), 'Master' (checked), and 'Slave' (unchecked). To the right of these options is a text input field labeled 'Modbus SN' with the value '01' entered. Below the radio buttons, there is a checkbox for 'EX_Meter For CT' which is unchecked. Underneath, there is a 'Meter Select' section with a list of options: 'No Meter' (selected), 'CHNT', and 'Eastron'. To the right of the 'Meter Select' list is a '0/3' indicator. On the far right of the screen, there is a vertical column of four navigation buttons: an up arrow, a down arrow, a cross (cancel), and a checkmark (confirm). The 'Paral. Set3' label is positioned between the up and down arrow buttons.