Wiring LoRa DS-AC3222 with Sigenergy Single Phase Inverter, Eastron SDM120CT-M 40mA Meter

A. Meter Side Wiring:

1. RS485A Connection:

- Connect **Pin 10** from the Eastron SDM120CT-M meter to **Pin A** on the LoRa device.

2. RS485B Connection:

- Connect **Pin 9** from the Eastron SDM120CT-M meter to **Pin B** on the LoRa device.

B. Inverter Side Wiring:

1. RS485A Connection:

- Connect **Pin 14** on the Sigenstor inverter COM port to **Pin A** on the LoRa device.

2. RS485B Connection:

- Connect **Pin 13** on the Sigenstor inverter COM port to **Pin B** on the LoRa device.

3. Antenna Wiring:

Connect the antenna to the port marked **RF** on the LoRa device.

Note: The antenna must be in a vertical position because it is an omnidirectional antenna. It should be placed at the highest possible point.

4. Power Wiring:

Connect **230V AC** power to the terminals marked **L** and **N** on the LoRa device.

5. Setting up LoRa devices during the commissioning of Sigenergy.

During the commissioning of the Sigenergy inverter, set 'Sofar Hybrid' as the inverter brand on both LoRa devices. This will allow the communication between the Sigenergy inverter and the Eastron meter to be initiated. After a successful commissioning, you should change the inverter brand to Sigenergy on both LoRa devices.

Note:

To avoid interference in communication, it is recommended to use the shortest possible cable for RS485 communication. This should be a shielded LAN cable. Use only one twisted pair, for example, blue/white blue. The antenna should be placed at the highest possible point outside the distribution box. Wiring should be performed with the power disconnected on all devices (inverter, meter, LoRa) to avoid short circuits and damage to the RS485 communication. It is very important that both antennas remain in a vertical position because they are omnidirectional antennas. Changing their position negatively affects the range.