Wiring LoRa DS-DC1430 with Huawei L1 Inverter

1. Wiring on the Inverter Side

RS485 Connection:

- RS485A: Connect **Pin 4** from the **com port** of the Huawei inverter to **Pin RS485 A** on the LoRa device.

- RS485B: Connect **Pin 3** from the **com port** of the Huawei inverter to **Pin RS485 B** on the LoRa device.

2. Antenna Wiring:

Connect the antenna to the port marked **RF OUT** 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.

3. Power Wiring:

Use a **USB-A** to **USB-C** cable as the power cable for the LoRa device.

Connect the **USB-C** end to the **USB-C** port on the LoRa device marked **USB**

Connect the USB-A end to the USB-A port on the inverter marked **4G/FE**

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.