Technical Notes

SUN2000 L1 Inverter/Meter Incorrect Consumption Data

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Incorrect Consumption Data

After the recent SUN2000 L1 inverter firmware update to V200R001C00SPC125, some plants have observed incorrect consumption data on PVMS.

This issue occurs only for power meter which are wrongly connected to PIN 1 & PIN 2 on the L1 inverter which have been updated to firmware version V200R001C00SPC117 or above versions.

Installers are required to follow installation guidelines based on Huawei user manual for SUN2000 L1 inverter, inverter communication port PIN 3 & 4 are defined as power meter connection ports (Please see definition table below). This document is published for use via the Huawei FusionSolar website:
https://solar.huawei.com/apac/Services#downloadcenter

Solution:

If your customer are facing such issue please follow the instructions below:
1. Shut-down the L1 inverter on the DC and AC side,
2. Correct the communication wiring on inverter COM port following **Table 1 SUN2000-L1 COM port definitions**,
3. Turn-on the L1 inverter,
4. Delete the existing power meter via installer account,
5. Add the power meter to existing plant by performing the local commissioning steps following the Huawei user manual for SUN2000 L1 inverter (Recommendation note: Please ensure to have the inverter WLAN password ready prior to visiting site).

If the problem still exists, please contact eu_inverter_support@huawei.com (Please copy alex.an@huawei.com).

Table 1 SUN2000-L1 COM port definition

No.	Label	Definition	Single SUN2000 Scenario	SUN2000 Cascading Scenario
1	485B1	RS485B, RS485 differential signal–	–	Used for connecting to the solar inverters.
2	485A1	RS485A, RS485 differential signal+		
3	485B2	RS485B, RS485 differential signal–	Used for connecting to the RS485 signal ports of the battery and smart power sensor. When both battery and power meter are configured, they need be crimped to the 485B2 and 485A2 ports.	Used for connecting to the RS485 signal ports of the battery and smart power sensor. When both battery and smart power sensor are configured, they need be crimped to the 485B2 and 485A2 ports.
4	485A2	RS485A, RS485 differential signal+		
5	GND	GND of the enable signal/12V/DI1/DI2	Used for connecting to GND of the enable signal/12V/DI1/DI2.	
6	EN+	Enable signal +/12V+	Used for connecting to the enable signal of the battery and the 12V positive signal.	
7	DI1	Digital input signal 1+	Used for connecting to the DI1 positive signal. It can be used for connecting to the DRM0 scheduling signal or reserved for the rapid shutdown signal.	
8	DI2	Digital input signal 2+	Used for connecting to the DI2 positive signal. It can be reserved for the feedback signal of the Backup device.	

END.