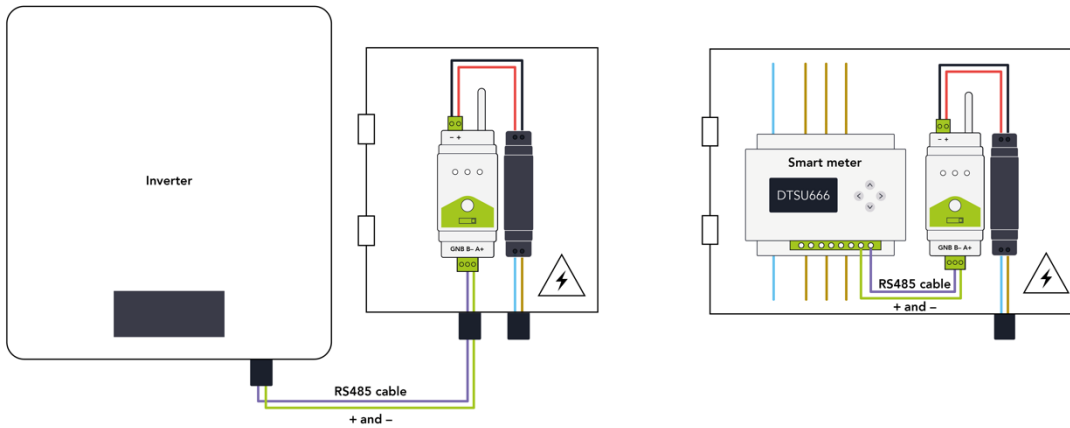


Compatibility between LumenRadio W-Modbus and Solar inverters

This document is intended to clarify when Lumenradio's W-Modbus wireless devices work in a use case for Solar inverter to Smart meter connection.



In a Modbus system, it is important to be able to ask questions and receive answers within a certain time frame. When a Master asks a question, there is often a pre-configured waiting time ("timeout"). In many Modbus systems, this is configurable. W-Modbus often has a delay of 50-80 ms but can take up to 500 ms depending on the amount of data, the baud rate of the device and if repeaters are used. It has been found that some inverters have set their wait time to 100 ms or less, which means the system does not have time to respond before the next question is asked. LumenRadio cannot influence timeout in the inverter. We are working on finding ways to handle very short response times but currently cannot support inverters that do not have configurable waiting times.

There have been good results with the following inverter & smart meter pairs, however LumenRadio cannot guarantee functionality due to the possibility of an inverter company can always update their firmware that makes it no longer working. Please see [the application guide for solar applications](#) for more information on a successful installation.

If you do decide to test with other combinations or find current working systems no longer working, please create a ticket in our support portal:

[LumenRadio Support](#)

List updated 2025-11-18

| Inverter brand | Inverter | Smart meter | Comment |
|------------------|-----------------------------------|---|---|
| Fronius | Symo GEN24 10.0 Plus | Fronius Smart Meter 63A-3 | ✓ Works with all version of Lumenradio firmware |
| Growatt | MOD 3-10KTL3-XH | CHINT TPM-C(DTSU666) | Works as of Lumenradio firmware 2.2.3+ |
| Growatt | MOD10KTL3-XH (BP) | CHINT DTSU666-20 | ✓ Works with beta firmware 4.1.20 |
| Huawei | SUN2000-10KTL | CHINT DTSU666-H | ✓ Works with beta firmware 4.0.20 |
| Huawei | SUN2000-10KTL- M1 | CHINT DTSU666-H | ✓ Works with beta firmware 4.0.20 |
| Kostal | PLENTICORE BI10.0/26 G2 | Smart Energy Meter G2 | ✓ Works with beta firmware 4.1.20 |
| SAJ | H2-10K-T2 | CHINT DTSU666 | ✓ SAJ have adapted firmware in Sweden to support LumenRadio |
| Sigenergy | SigenStor EC 10.0 kW TP | Sigen Sensor TP-CT120-DH (Eastron SDM630MODBUS) | ✓ Works with beta firmware 4.0.20 |
| Solinteg | MHT-50K-100 | Solinteg RMM-MA | ✓ Works with beta firmware 4.1.20 |
| Solis | S6-EH3P15K-H | Eastron SDM630MODBUS | ✓ Works with beta firmware 4.0.20 |
| Sungrow | SG 5.0/6.0/7.0/8.0/10/12RT | CHINT DTSU666-20 | ✓ Works as of Lumenradio firmware 2.2.3+ |
| Sungrow | SH 15T | CHINT DTSU666 | ✓ Works with beta firmware 4.0.20 |
| Sungrow | SH6.ORT-V112 | CHINT DTSU666-20 | ✓ Works with beta firmware 4.0.20 |

We do have reported issues from several inverter and smart meter pairs. We do work hard to try support these in the future. Here is a list of the current known issues:

| Inverter brand | Inverter | Smart meter | Comment |
|----------------|----------------|---------------|--|
| SolaX | X3-Hybrid G4.2 | CHINT DTSU666 | ✗ To fast polling, not tested with beta. Please contact LumenRadio if you have tested beta version with SolaX. |
| Fox ESS | H3 | CHINT DTSU666 | ✗ Still under validation that beta version work. Please contact LumenRadio if you have tested beta version with Fox ESS. |