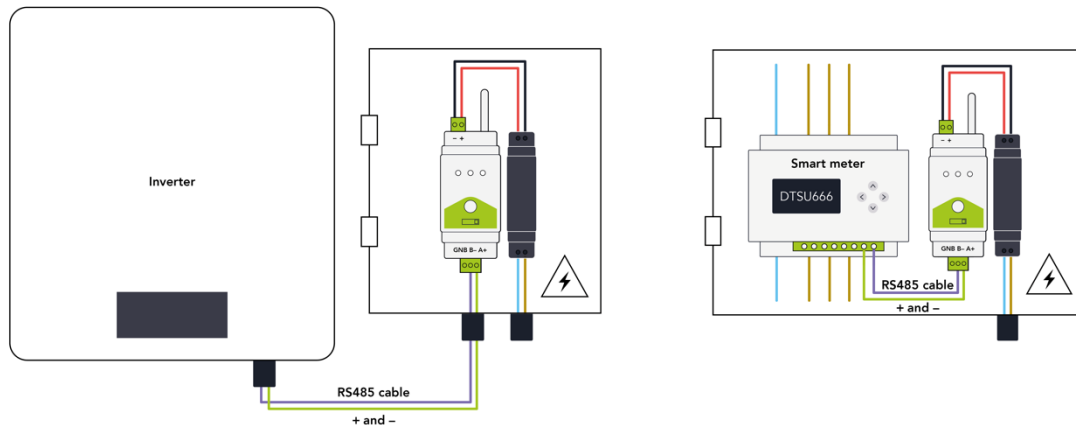


# Compatibility between LumenRadio W-Modbus and Solar inverters

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.

As of 2024-12-04 there have been good results with the following inverter & smart meter pairs, however Lumenradio can not guarantee functionality due to the possibility of an inverter company can always update their firmware that makes it no longer working. 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](#)

Inverter brand	Inverter	Smart meter	Comment
<b>Fronius</b>	Symo GEN24 10.0 Plus	Fronius Smart Meter 63A-3	✓ Works with all version of Lumenradio firmware
<b>Huawei</b>	SUN2000-10KTL	CHINT DTSU666-H	✓ Works as of Lumenradio firmware 2.2.3+

<b>SAJ</b>	H2-10K-T2	CHINT DTSU666	✓ SAJ have adapted firmware in Sweden to support LumenRadio
<b>Sungrow</b>	SG5.0/6.0/7.0/8.0/10/12RT	CHINT DTSU666-20	✓ Works as of Lumenradio firmware 2.2.3+
<b>Growatt</b>	MOD 3-10KTL3-XH	CHINT TPM-C(DTSU666)	✓ Works as of Lumenradio firmware 2.2.3+

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:

<b>Inverter brand</b>	<b>Inverter</b>	<b>Smart meter</b>	<b>Comment</b>
<b>Sungrow</b>	SH15T	CHINT DTSU666	✗ To fast polling
<b>SolaX</b>	X3-Hybrid G4.2	CHINT DTSU666	✗ To fast polling
<b>Fox ESS</b>	H3	CHINT DTSU666	✗ Not working, unknown for now. Assuming to fast polling
<b>Kostal</b>	PLENTICORE BI10.0/26 G2	<a href="#">Smart Energy Meter G2</a>	✗ To fast polling. Might work as exceptional radio signal strength.
<b>Sigenergy</b>	SigenStor EC 10.0 kW TP	Eastron SDM630MODBUS	✗ Not working, unknown for now. Assuming to fast polling