Supported Devices:

Supported Non-SolarEdge External Devices

- Meter Support
- Analog Environmental Sensors Support

Meters

SolarEdge offers Modbus meters that can be used for production / consumption / import / export monitoring; for additional info refer to the meter page. In addition, SolarEdge supports the connection of some external one- or three-phase revenue meters. The SolarEdge device reads the energy data from the energy meter and sends it to the SolarEdge monitoring portal.

An external meter can be connected to a SolarEdge inverter or to a Control and Communication Gateway. The following meters are supported:

Meter Model	MID approved	Supported Functionality	Min. Required SolarEdge Device CPU Firmware version	Comments
Inepro® PRO75D MODBUS	Yes	Production / Consumption monitoring	2.348	
Inepro® PRO1250D MODBUS	Yes	Production / Consumption monitoring	2.348	
Inepro® 0254 PRO1-Mod with version 1.18 and above	yes	Production / consumption / import / export monitoring Export Limitation	3.1808	
Inepro® 0268 PRO1-Mod	No	Production / consumption / import / export monitoring Export Limitation		

Inepro® 0.257 PRO380 with version 1.18 and above	yes	Production / consumption / import / export monitoring Export Limitation	3.1808	
Inepro® 0271 PRO380-Mod	No	Production / consumption / import / export monitoring Export Limitation		
Janitza® UMG 104 Power Analyzer	No	Production/Consumption / Import / Export monitoring Export Limitation	For CCG from 3.2228 For Inverters from 4.12.xxx	
Janitza® UMG 604 Power Analyzer	No	Production/Consumption / Import / Export monitoring Export Limitation	For CCG from 3.2228 For Inverters from 4.12.xxx	In order to use Janitza 604 in Delta (and specifically in Aron Circuit) topology the following configuration need to be done in the Meter: In Register 110 we need to change the value from 0x0 to 0x1
S0 meter (with 250 to 10000 pulses per kWh)	No	Import	2.xxxx	
Schneider iEM3255	Yes	Production/Consumption / Import / Export monitoring	4.19 or later	Not supported in Delta topology

Janitza® UMG 96 Power Analyzer	No	Production/Consumption / Import / Export monitoring Export Limitation	For CCG from 3.2228 For Inverters from 4.12.xxx	When using this meter for zero-export applications, reaction time and measured exported power might be inaccurate.

*All the meters in the table were not tested and are not certified for G100 issue 2 amendment 2
For detailed information on how to connect and configure these meters to SolarEdge products, refer to:
Connecting a Revenue Grade Meter to SolarEdge Devices application note

Environmental Sensors

SolarEdge offers environmental sensors that can be used to monitor a site's irradiance, temperature and wind velocity and calculate site performance ratio; for additional info refer to the sensors page.
In addition, SolarEdge supports the connection of other sensors.
The sensors connect to the SolarEdge Control and Communication Gateway (CCG).

SolarEdge has specifically tested and approved the sensors detailed in the table below, manufactured by 'Ingenieurbüro Mencke & Tegtmeyer GmbH'. However, any sensor that meets the analog sensor input specifications of the CCG can be used (refer to the CCG datasheet for full specifications).

Sensor Type	Model	Measurement Range	Electrical Output
Module Temperature	Tm-I-4090	-40…+90 °C	4..20 mA
	Tm-V-4090	-40…+90 °C	0..10 V
Ambient Temperature	Ta-I-4090	-40…+90 °C	4..20 mA
	Ta-V-4090	-40…+90 °C	0..10 V
Wind direction	4.3129.00.141	0…360°	4….20mA
	4.3129.00.167	0…360°	0-2VDC

Wind Velocity	4.3519.00.167	0...50m/s	0-2VDC
Silicon Irradiance Sensor	Si-I-420TC	0...1500W/m^2	4....20mA
	Si-V-10TC	0...1500W/m^2	0-10VDC
Pyranometers	SMP11-A	0...1600W/m²	4....20mA
	SMP11-V	-200...2000W/m²	0-1VDC