

/ Perfect Welding / Solar Energy / Perfect Charging



FRONIUS SMART METER

The bidirectional meter for recording power consumption in the home



The Fronius Smart Meter is a bidirectional meter which optimises self-consumption and records the household's load curve. Thanks to highly accurate measurements and rapid communication via the Modbus RTU interface, dynamic feed-in control when feed-in limits are imposed is faster and more accurate than with the S0 meter.

Together with Fronius Solar.web, the Fronius Smart Meter presents a clear overview of power consumption within the home. In the Fronius Energy Package storage solution based on the Fronius Symo Hybrid, the Fronius Smart Meter provides perfectly coordinated management of the various energy flows and optimises overall energy management. The Fronius Smart Meter is ideally suited for use with the Fronius Symo, Fronius Symo Hybrid, Fronius Galvo, Fronius Primo, Fronius Eco inverters and the Fronius Datamanager 2.0.

FRONIUS SMART METER

TECHNICAL DATA	FRONIUS SMART METER 63A-3	FRONIUS SMART METER 50KA-3 ¹⁾	FRONIUS SMART METER 63A-1
Nominal voltage	400 - 415 V	400 - 415 V	230 - 240 V
Grid frequency range		50 to 60 Hz	
Maximum current	3 x 63 A	3 x 50,000 A	1 x 63 A
Input Terminal capacity	1 - 16 mm ²	0.05 - 4 mm ²	1 - 16 mm ²
Communication and Neutral line Terminal capacity		0.05 - 4 mm ²	
Power consumption	1,5 W	2,5 W	1,5 W
Starting current		40 mA	
Accuracy class		1	
Active Energy Accuracy		Class B (EN50470)	
Reactive Energy Accuracy		Class 2 (EN/IEC 62053-23)	
Short-time overcurrent		30 x I _{max} / 0,5 s	
Mounting		Indoors (DIN rail)	
Housing	4 modules DIN 43880	4 modules DIN 43880	2 modules DIN 43880
Degree of protection		IP 51 (front frame), IP 20 (terminals)	
Specified operating range	-25 - +55°C	-5°C - +55°C	-25°C - +55°C
Dimensions (Height x Width x Depth)	89.0 x 71.2 x 65.6 mm	89.0 x 71.2 x 65.6 mm	89.0 x 35.0 x 65.6 mm
Interface to inverter		Modbus RTU (RS485)	
Display	8-digit LCD	8-digit LCD	6-digit LCD

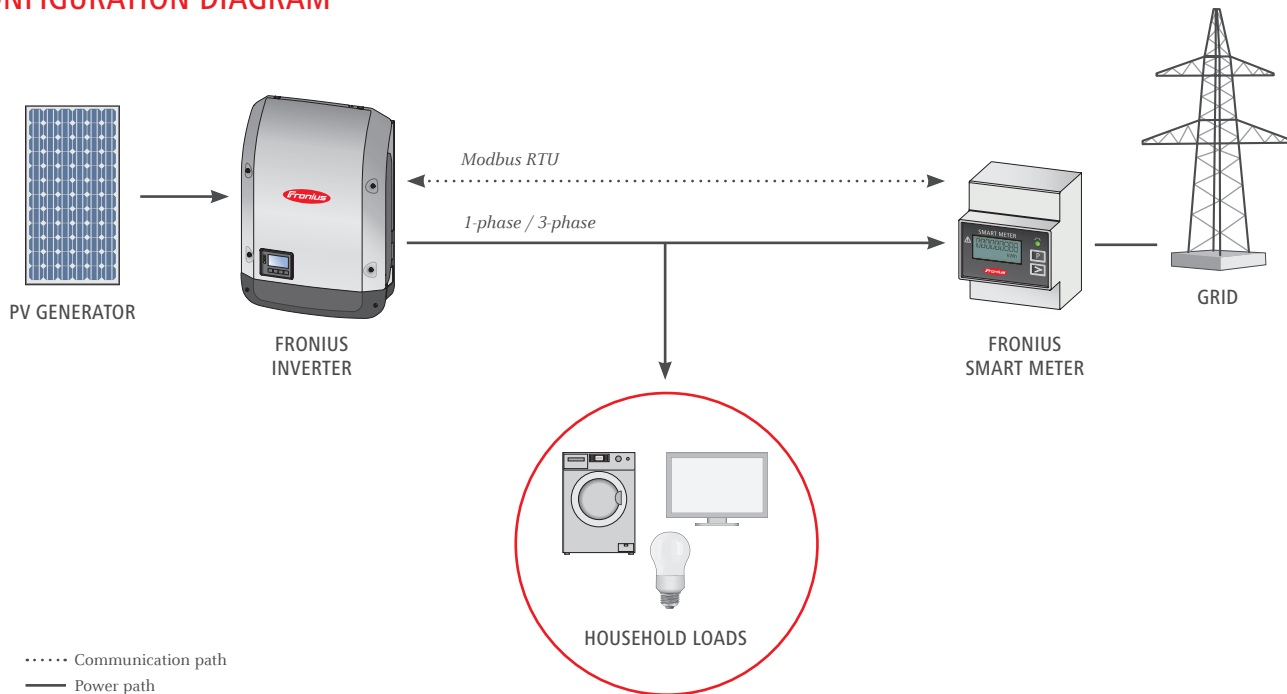
¹⁾ Delivered without current sensors. Further information about selecting suitable current sensors can be found at www.fronius.com.

THE ADVANTAGES AT A GLANCE

- / Fast and accurate dynamic feed-in control
- / Clear overview of power consumption in Fronius Solar.web
- / Optimised energy management with the Fronius Energy Package storage solution



CONFIGURATION DIAGRAM



The Fronius Smart Meter is compatible with all inverters with an RS485 interface (Modbus RTU). The Fronius Smart Meter works in conjunction with the Fronius Datamanager 2.0 for the Fronius IG Plus inverters. The Fronius Smart Meter can be retrofitted at any time together with the Fronius Datamanager 2.0 in inverters that have already been installed.

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THREE BUSINESS UNITS, ONE GOAL: TO SET THE STANDARD THROUGH TECHNOLOGICAL ADVANCEMENT.

What began in 1945 as a one-man operation now sets technological standards in the fields of welding technology, photovoltaics and battery charging. Today, the company has around 3,800 employees worldwide and 1,242 patents for product development show the innovative spirit within the company. Sustainable development means for us to implement environmentally relevant and social aspects equally with economic factors. Our goal has remained constant throughout: to be the innovation leader.

Further information about all Fronius products and our global sales partners and representatives can be found at www.fronius.com

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