/ Perfect Welding / Solar Energy / Perfect Charging

FRONIUS SMART METER

The bidirectional meter for intelligent energy management

The Fronius Smart Meter is a bidirectional meter, which optimises self-consumption, records the load curve and controls the various energy flows. 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 the Fronius Solar.web, the Smart Meter presents a clear overview of the power consumption. In combination with the Fronius storage solutions, the device ensures a perfectly coordination of various energy flows, which optimises the entire energy management. The Fronius Smart Meter is ideally suited for use with the GEN24 Plus and Tauro, as well as all Fronius inverters with 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 mm²	0.05 - 4 mm²	1 - 16 mm²
Communication and neutral line terminal capacity		0.05 - 4 mm²	
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 Imax / 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

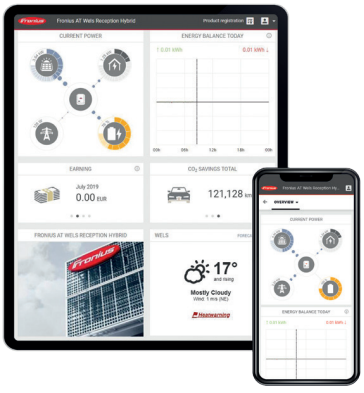
/ Fast and accurate dynamic feed-in control

/ Clear overview of power consumption in Fronius Solar.web

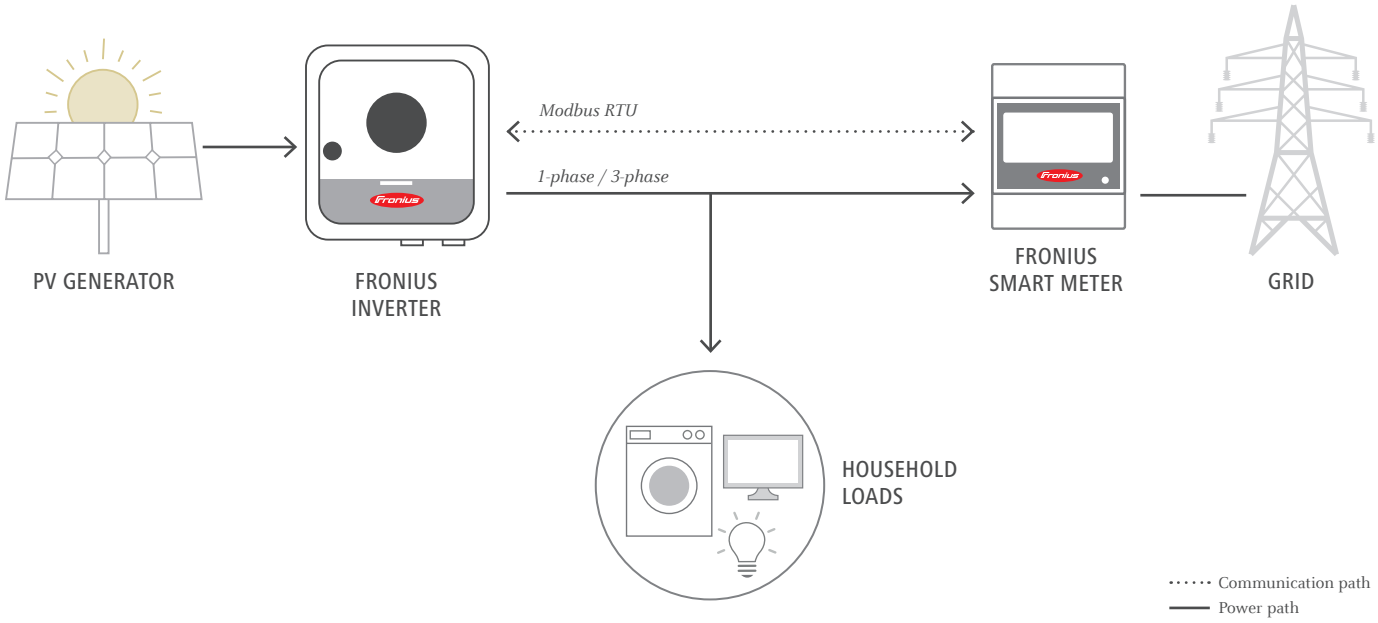
/ Energy management with the Fronius storage solutions

/ Identifiying opportunities to optimize the pv system

/ Monitoring and analyzing heavy loads



CONFIGURATION DIAGRAM



The Fronius Smart Meter is compatible with all inverters with an RS485 interface (Modbus RTU). 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 4,760 employees worldwide and 1,253 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**

Fronius India Private Limited
GAT no 312, Nanekarwadi
Chakan, Taluka - Khed District
Pune 410501
India
pv-sales-india@fronius.com
www.fronius.in

Fronius Australia Pty Ltd.
90-92 Lambeck Drive
Tullamarine VIC 3043
Australia
pv-sales-australia@fronius.com
www.fronius.com.au

Fronius UK Limited
Maidstone Road, Kingston
Milton Keynes, MK10 0BD
United Kingdom
pv-sales-uk@fronius.com
www.fronius.co.uk

Fronius International GmbH
Froniusplatz 1
4600 Wels
Austria
pv-sales@fronius.com
www.fronius.com

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