Fronius

SHIFTING THE LIMITS

FRONIUS SMART METER

/ Measuring power consumption, feed-in and surplus energy

/ The Fronius Smart Meter is a bidirectional meter which records the site's black data and can be used to optimise self-consumption. The Modbus RTU interface enables highly accurate measurements and rapid communication. Combined with Fronius Solar.web, the Fronius Smart Meter presents a clear overview of power consumption, feed-in and surplus energy. In the Fronius Energy Package storage solution based on the Fronius Symo Hybrid, the Fronius Smart Meter coordinates the various energy flows and optimises energy management. The Fronius Smart Meter is ideally suited for Fronius Symo, Fronius Symo Hybrid, Fronius Galvo, Fronius Primo inverters and the Fronius Datamanager 2.0.

FRONIUS SMART METER

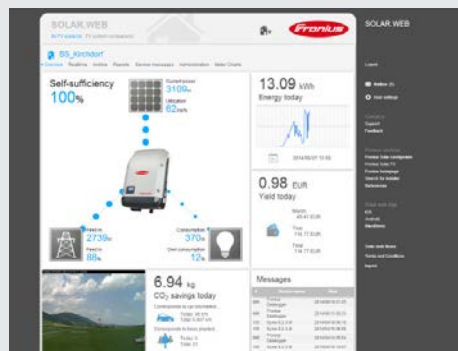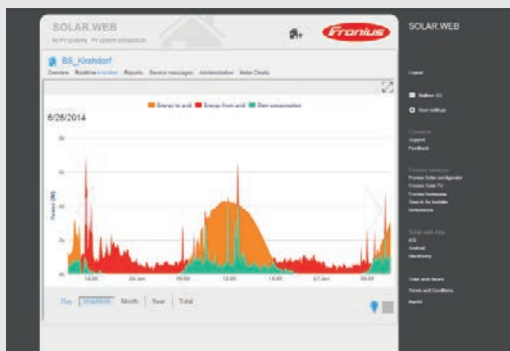| TECHNICAL DATA	FRONIUS SMART METER 63A-1 residential	FRONIUS SMART METER 63A-3 residential	FRONIUS SMART METER 50kA-3 commercial
Nominal voltage	230 – 240 V	400 – 415 V	400 – 415 V
Max. current	1 x 63 A	3 x 63 A[1]	3 x 50,000 A
Cable cross-section, power path	1 – 16 mm²	1 – 16 mm²	0.05 - 4 mm²
Cable cross-section, communication	0.05 – 4 mm²	0.05 – 4 mm²	0.05 – 4 mm²
Installation	DIN rail	DIN rail	DIN rail
Housing (width)	2 pole DIN 43880	4 pole DIN 43880	4 pole DIN 43880
Measurement (mm)	89 x 35 x 65.6	89 x 71.2 x 65.6	89 x 71.2 x 65.6
Accuracy class	1	1	1
Interface to inverter	Modbus RTU (RS485)	Modbus RTU (RS485)	Modbus RTU (RS485)
Display	6-digit LCD	8-digit LCD	8-digit LCD
Connection for measurement (current)	**Direct connect**	**Direct connect**	**Via current transducers (CTs)[2]**

[1] CTs with 5A secondary output [2] CTs are not included in Smart Meter
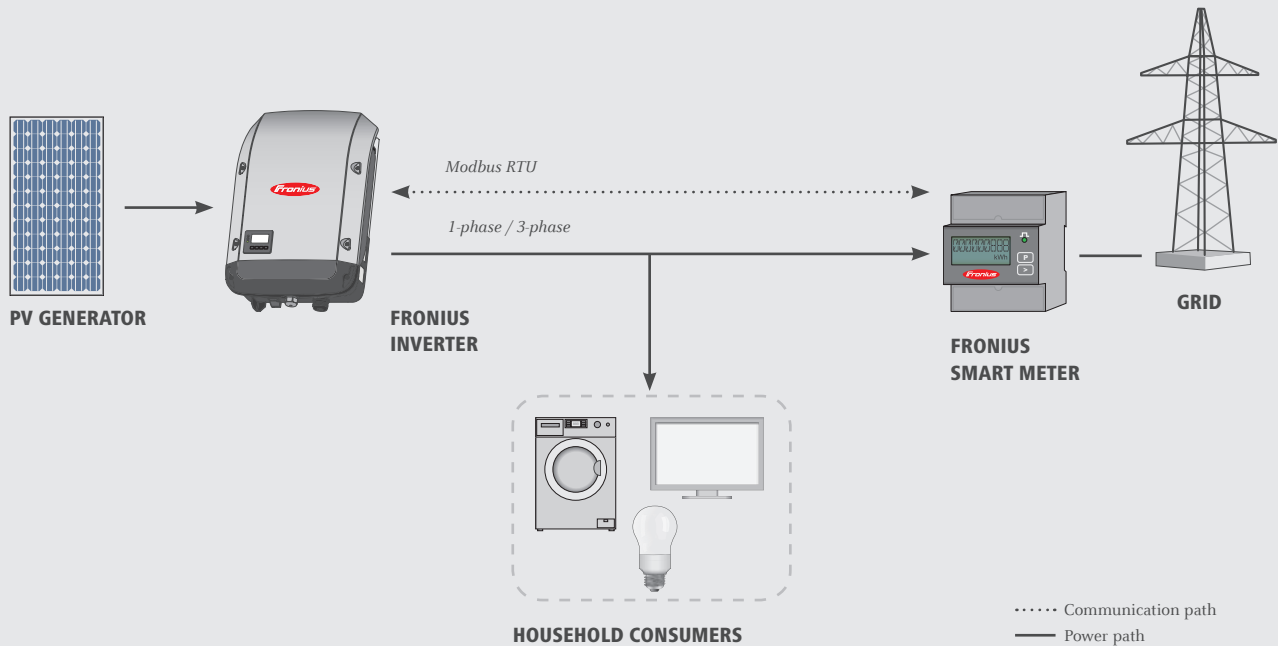
THE ADVANTAGES AT A GLANCE

/ Fast and accurate dynamic feed-in control

/ Clear overview of power consumption, feed-in and surplus energy in Fronius Solar.web

/ Optimised energy management with the Fronius Energy Package storage solution

CONFIGURATION DIAGRAM

Modbus RTU

1-phase / 3-phase

PV GENERATOR

FRONIUS INVERTER

FRONIUS SMART METER

GRID

HOUSEHOLD CONSUMERS

· · · · · · Communication path
———— Power path

/ 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[1], Fronius IG Plus and Fronius CL inverters, whereas the Fronius Datamanager Box 2.0 is used with the Fronius IG TL, Fronius Agilo and Fronius Agilo TL 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.

[1] Export limitation is not possible

/ Perfect Welding / Solar Energy / Perfect Charging

WE HAVE THREE DIVISIONS AND ONE PASSION: SHIFTING THE LIMITS OF POSSIBILITY.

/ Whether welding technology, photovoltaics or battery charging technology – our goal is clearly defined: to be the innovation leader. With around 3,000 employees worldwide, we shift the limits of what's possible - our record of over 1,000 granted patents is testimony to this. While others progress step by step, we innovate in leaps and bounds. Just as we've always done. The responsible use of our resources forms the basis of our corporate policy.

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

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