FRONIUS SMART METER WR

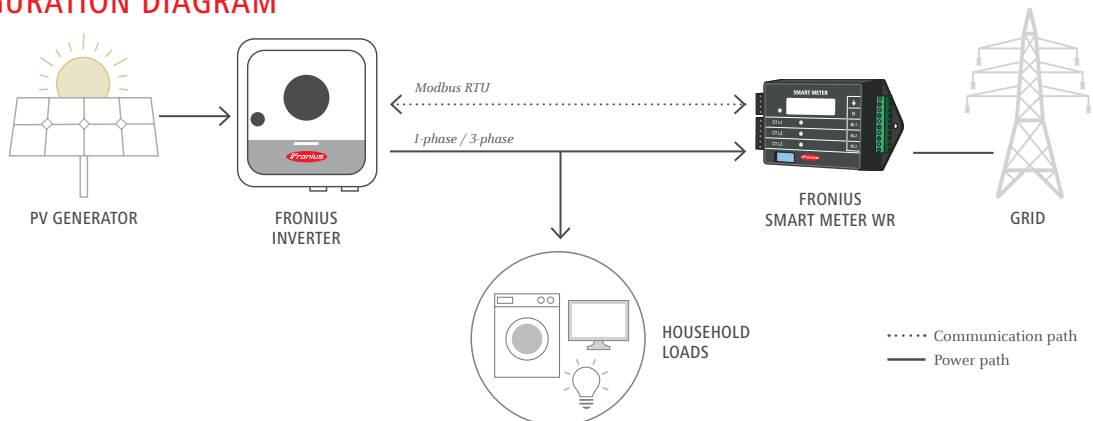## Bi-directional energy meter for feed-in management and energy consumption monitoring

Introducing the Fronius Smart Meter WR, a bidirectional energy meter. Thanks to its high accuracy and fast communication speed via Modbus RTU, the meter is suitable for dynamic feed-in management and grid-tied zero export PV systems. Together with Fronius Solar.web monitoring, the Smart Meter offers a detailed overview of a home or business' energy consumption.

TECHNICAL DATA FRONIUS SMART METER WR

	FRONIUS SMART METER WR 100-600V - 3
Operating voltage range (line to line)	85 - 690 V
Frequency	45 - 65 Hz
Connections	Euroblock style pluggable terminal blocks (12 AWG / 2.5 mm²)
Self-consumption	1.75 W
Maximum rated apparent power	3.75 W
Accuracy	± 0.5 % (see manual for details)
Mounting	Indoor: Wall-mounted Outdoor: If mounted inside an electrical enclosure that is rated NEMA 3R or 4 / IP 66
Temperature range	-40°C to 80°C
Dimensions (H x W x D)	6.02 in. × 3.35 in. × 1.50 in. (153 mm × 85.1 mm × 38.0 mm)
Weight	233 g (8.2 oz)
Interface to inverter	Modbus RTU (RS 485)
Certificates / listings	UL 61010-1, CAN/CSA-C22.2 No. 61010-1-04, IEC 61010-1, EN 61326: 2002, EN61000-4-2, EN61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-11, FCC Part 15 Class B, EN 55022: 1994 Class B
Current transformers	Primary: 1 − 6000 A / secondary: use only CTs with voltage output 333 mV
Supported grid types	1-phase 3-wire (split-phase), 1-phase 2-wire without N, 3-phase 4-wire (WYE), 3-phase 3-wire without N (Delta), 3-phase 4-wire delta (High-leg delta / stinger grid)
Power supply	Self-supplied, No external power supply required

CONFIGURATION DIAGRAM

PV GENERATOR — FRONIUS INVERTER — Modbus RTU / 1-phase / 3-phase — FRONIUS SMART METER WR — GRID — HOUSEHOLD LOADS

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

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