

# FRONIUS SMART METER TS

The bidirectional meter for intelligent energy management



The Fronius Smart Meter TS 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 TS presents a clear overview of the power consumption. In combination with the Fronius storage solutions, the device ensures a perfect coordination of various energy flows, which optimises the entire energy management. The Fronius Smart Meter TS 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 TS

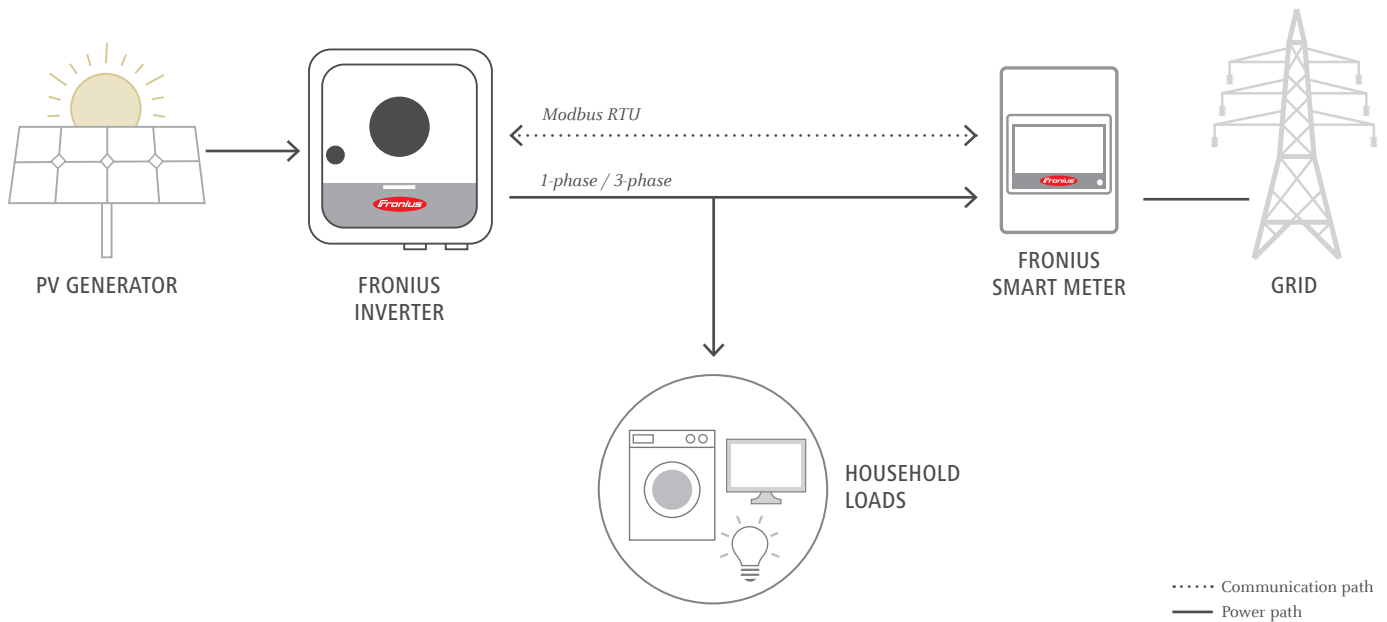
| TECHNICAL DATA                      | FRONIUS SMART METER TS 100A -1 | FRONIUS SMART METER TS 65A -3              | FRONIUS SMART METER TS 5KA -3 |
|-------------------------------------|--------------------------------|--------------------------------------------|-------------------------------|
| Nominal voltage                     | 230 V                          | 208 - 400 V                                | 400 - 480 V                   |
| Operating voltage range             | -30% - +20%                    | -20% - +20%                                | -20% - +15%                   |
| Nominal frequency                   |                                | 50 to 60 Hz                                |                               |
| Grid frequency range                |                                | 45 to 65 Hz                                |                               |
| Maximum current                     | 1 x 100 A                      | 3 x 65 A                                   | 3 x 5000 A                    |
| Power line cross section            | 1 - 25 mm <sup>2</sup>         | 1 - 16 mm <sup>2</sup>                     | 1 - 4 mm <sup>2</sup>         |
| Neutral line cross section          | 1 - 25 mm <sup>2</sup>         | 0.05 - 1.5 mm <sup>2</sup>                 | 1 - 4 mm <sup>2</sup>         |
| Communication line cross section    |                                | 0.05 - 1.5 mm <sup>2</sup>                 |                               |
| Power consumption                   |                                | ≤1W                                        |                               |
| Starting current                    | 40 mA                          | 20 mA                                      | 10 mA                         |
| Accuracy class                      |                                | 1                                          |                               |
| Active energy accuracy              |                                | Class 1 (EN62053-21) / Class B (EN50470-3) |                               |
| Reactive energy accuracy            |                                | Class 2 (EN 62053-23)                      |                               |
| Short-time overcurrent              | 3000A/10ms                     | 1950A/10ms                                 | 30A/500ms                     |
| Mounting                            |                                | Indoors (DIN rail)                         |                               |
| Housing                             | 2 modules DIN 43880            | 3 modules DIN 43880                        | 3 modules DIN 43880           |
| Degree of protection                |                                | IP 51 (front frame), IP 20 (terminals)     |                               |
| Ambient temperature range           |                                | -25 to +65°C                               |                               |
| Dimensions (Height x Width x Depth) | 91.5 x 35.8 x 63.0             | 91.5 x 53.8 x 63.0 mm                      | 91.5 x 53.8 x 63.0 mm         |
| Interface to inverter               |                                | Modbus RTU (RS485)                         |                               |
| Display                             |                                | 3 x 8 digit / Touchscreen                  |                               |

## THE ADVANTAGES AT A GLANCE

- / Fast and accurate dynamic feed-in control
- / Clear overview of power consumption in Fronius Solar.web
- / Energy management with Fronius storage solutions
- / Identifying 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.

/ Perfect Welding / Solar Energy / Perfect Charging

### 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 5,440 employees worldwide and 1,264 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](http://www.fronius.com)

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