

# **Fronius Smart Meter IP User Guide**

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**Fronius Smart Meter IP** 



#### **Product Information**

The Fronius Smart Meter IP is a radio equipment type device that is compliant with Directive 2014/53/EU. It is manufactured by Fronius International GmbH. The product allows for communication through WLAN and LAN, and operates at a frequency band of 2.4 GHz. It has an IP20/IP30 rating for housing and connections and has a footprint of 3 TE (3 Modules DIN 43880). The Smart Meter has LEDs to indicate connection status and a boot process. It is compatible with Fronius GEN24, Tauro, Datamanager 2.0 (SnapInverter), and Symo Hybrid.

#### **Technical Data**

• Permitted ambient temperature: 100 – 240 V

Nominal frequency: 208 – 480 V
 Voltage phase/neutral: max. 5 W

Voltage phase/phase: 5 kA
Self-consumption: IP20/IP30

• Primary current: 3 TE (3 Modules DIN 43880)

#### **Product Usage Instructions**

- 1. **Mounting:** Install the Fronius Smart Meter IP in the desired location.
- 2. Power wiring: Connect the appropriate voltage phase/neutral and voltage phase/phase to the Smart Meter.
- 3. Data wiring:
  - For LAN (GEN24 & Tauro), connect the LAN cable to the Smart Meter.
  - For WLAN (GEN24 & Tauro), connect to the access point using the provided SSID and password.
  - For Modbus RTU (SnapInverter, GEN24 & Tauro), connect the Modbus RTU cable to the Smart Meter.
- 4. **Load/Source:** Depending on your setup, connect the load/source wires to the appropriate terminals on the Smart Meter.
- 5. CT (Current Transformer) Wiring:

- For 1 Phase, 2 Wires CT: Connect CT1 to the appropriate terminals on the Smart Meter.
- For 3 Phases, 4 Wires CT: Connect CT1, CT2, and CT3 to the appropriate terminals on the Smart Meter.
- For 2 Phases, 3 Wires CT: Connect CT1 and CT2 to the appropriate terminals on the Smart Meter.
- 6. Modbus RTU BIAS: Set the Modbus RTU BIAS to ON or OFF depending on your requirements.
- 7. Battery: Set the Battery switch to ON or OFF depending on your setup.
- 8. **Modbus RTU Terminating Resistor:** Set the Modbus RTU Terminating Resistor to ON or OFF depending on your requirements.

## 9. Outside Setup:

- Using a mobile phone, scan the QR-Code on the Smart Meter.
- Follow the instructions provided.
- The initial password for UI is 123.

#### 10. Inside Setup:

- On a PC, connect to the access point using the provided SN and PW.
- The SSID is FroniusMeter\_xxxxx (xxx = Seriennummer) and the password can be found on the Smart Meter.

Fronius International GmbH declares that the radio equipment type Fronius Smart Meter IP is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: <a href="https://www.fronius.com">www.fronius.com</a>.

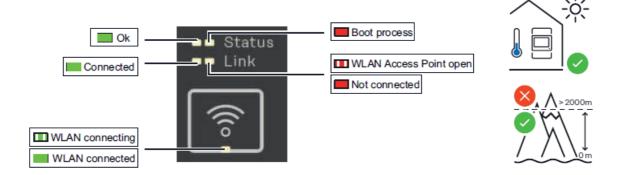
#### **Technical Data**

Technical Data	
Permitted ambient temperature	from -25° to +55°C
Nominal frequency	50- 60 Hz
Voltage phase / neutral	100 – 240 V
Voltage phase / phase	208 – 480 V
Self-consumption	max. 5 W
Primary current	5 kA
IP range	IP20 / IP30 (Housing / Connections)
Footprint	3 TE (3 Modules DIN 43880)

#### Communication

Communication	
WLAN / LAN	Modbus TCP
WLAN frequency band	2,4 GHz
RS 485	Modbus RTU
Terminating resistor for RS 485	Configurable 0-1
BIAS Network for RS 485	Configurable 0-1
Multimetering	Yes – up to 2 Smart meters (RTU) Modbusinterface
Addressing (Modbus RTU)	In UI
Update possibility	Yes
CTs can be sourced by Fronius	100 A, 250 A, 400 A

## **LEDs**

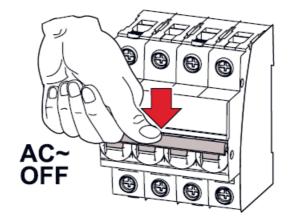


#### **Software-Version:**

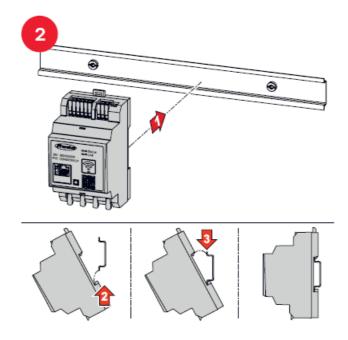
- Fronius GEN24 & Tauro
- Full Compatibility (Version ≥ 1.24.1)
- Fronius Datamanager 2.0 (SnapInverter)
- Modbus RTU (Version  $\geq$  3.25.1)
- Fronius Symo Hybrid
- Modbus RTU (Version ≥ 1.25.1)

## AC~

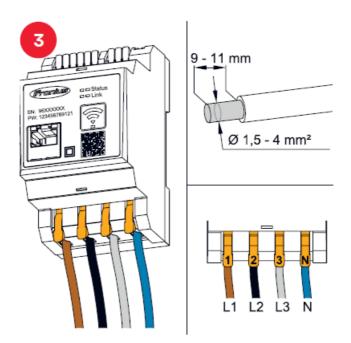


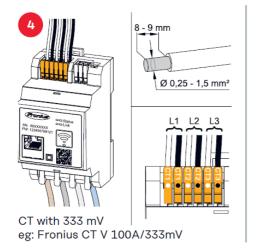


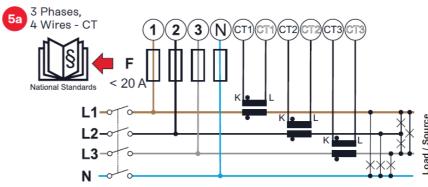
# Mounting

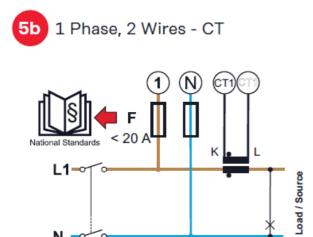


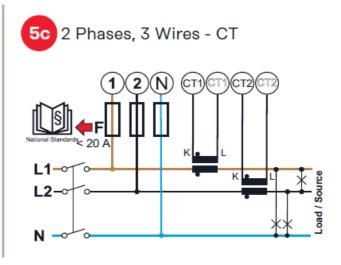
# Power wiring



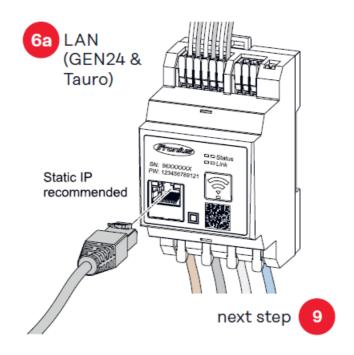


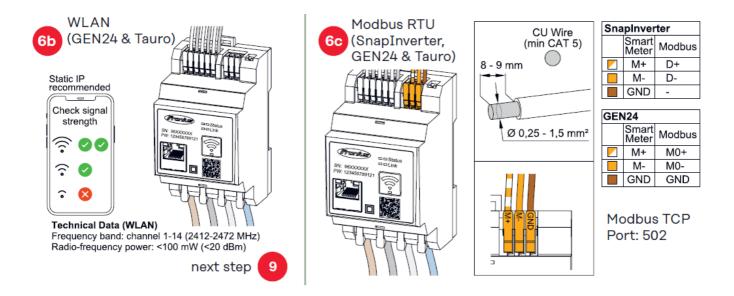




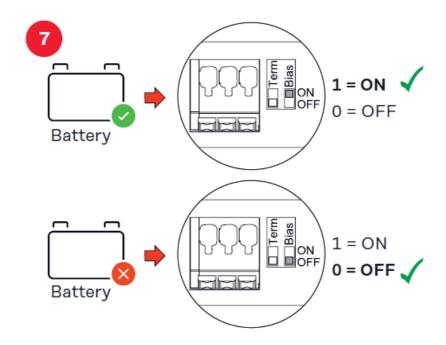


## **Data wiring**

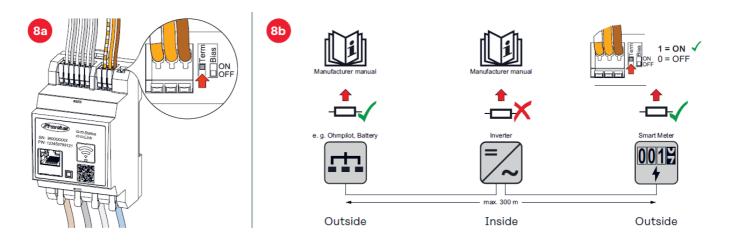


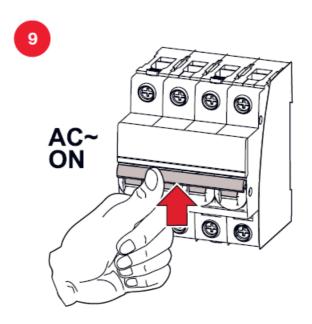


#### **Modbus RTU BIAS**



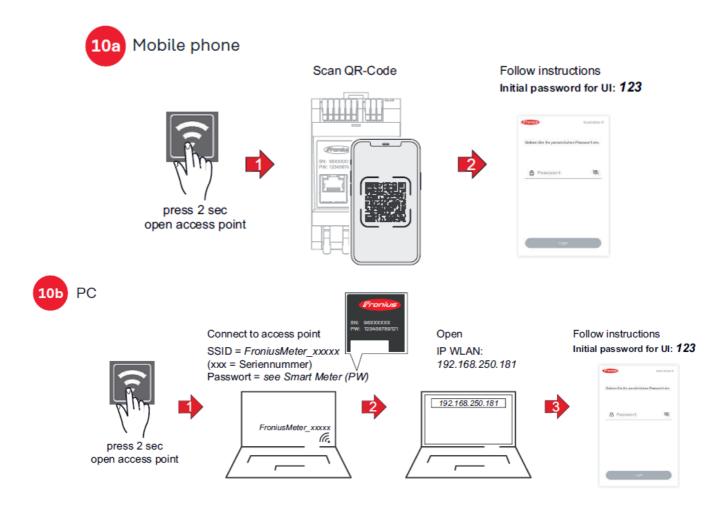
## **Modbus RTU Terminating Resistor**





## Setup

## Mobile phone



## Warranty

Detailed, country-specific warranty terms are available on: www.fronius.com/solar/warranty.

#### **Documents / Resources**



Fronius Smart Meter IP [pdf] User Guide MAXSEL, 3400200421, Smart Meter IP, Smart IP, Meter IP, IP

## References

- Download Search Fronius
- Fronius International
- @ Our warranty models for your Fronius products

Manuals+,