

# Quick Start Guide

## Fronius Smart Meter TS 5kA-3



| Technical Data - General                                |                                                                              |
|---------------------------------------------------------|------------------------------------------------------------------------------|
| Nominal voltage (3-phase)                               | 400 - 480 V                                                                  |
| Operating range (class 1)                               | 320 - 552 V                                                                  |
| Operating range (class 2)                               | 173 - 400 VLL $\pm$ (2 % RDG/accuracy)                                       |
| Nominal voltage (1-phase)                               | 230 - 277 V                                                                  |
| Operating range (class 1)                               | 184 - 318,55 V                                                               |
| Operating range (class 2)                               | 100 - 230 VLN $\pm$ (1 % RDG/accuracy)                                       |
| Nominal frequency / Tolerance                           | 50 - 60 Hz / 45 - 65 Hz                                                      |
| Nominal / Maximum current                               | 1 A + 5 A / 6 A                                                              |
| Powerfactor range<br>(EN/IEC 62053-21, EN/IEC 62053-23) | aktiv $\cos\phi$ 0.5 ind to 0.8 cap<br>reaktiv $\sin\phi$ 0.5 ind to 0.5 cap |
| Current transformer ratio (kCT)                         | 1 - 1000<br>e. g. TC 800/5A kCT = 160<br>for direct connection: kCT = 1      |
| Voltage transformer ratio (kVT)                         | 1 - 1000<br>e. g. VT 20000/400V kVT = 50<br>for direct connection: kVT = 1   |
| Maximum value kVT x kCT                                 | 1000 (CT/5A)                                                                 |
| Permitted ambient temperature                           | from -25° to +65°C                                                           |
| Mounting                                                | DIN rail 35 mm                                                               |
| IP range (EN60529)                                      | IP54 / IP20 (Front / Connections)                                            |

| Communication        |                                                                                  |
|----------------------|----------------------------------------------------------------------------------|
| Standard             | RS485 - 3 conductors                                                             |
| Protocol             | Modbus RTU                                                                       |
| Min. Softwareversion | Datamanager 2.0: 3.16.1 / Fronius Symo Hybrid:<br>1.16.1 / Fronius GEN24: 1.12.1 |

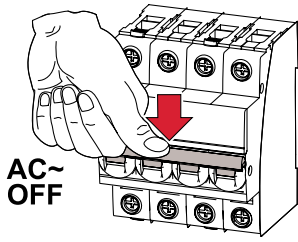
| Screw terminal                                       |                                                                              |
|------------------------------------------------------|------------------------------------------------------------------------------|
| Measuring input / neutral line                       | 1 - 4 mm <sup>2</sup>                                                        |
| Output (data communication / Auxiliary power supply) | 0,05 - 2,5 mm <sup>2</sup>                                                   |
| Recommended torque                                   | Measuring input: max. 0,6 Nm<br>Output / Auxiliary power supply: max. 0,4 Nm |

Detailed, country-specific warranty terms are available on: [www.fronius.com/solar/warranty](http://www.fronius.com/solar/warranty)



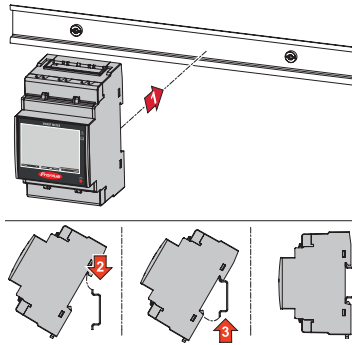
## AC~

1



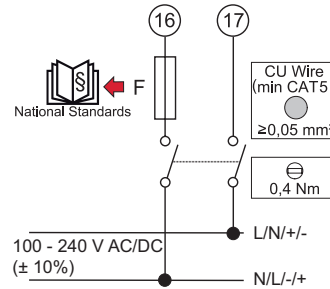
## Mounting

2



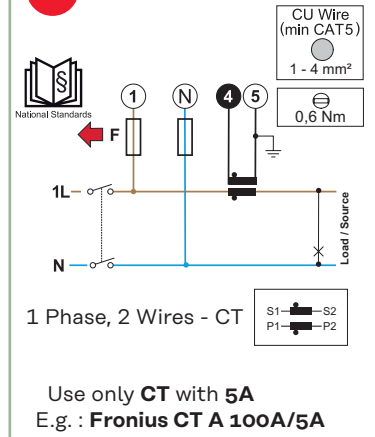
## Auxiliary Power Supply

3

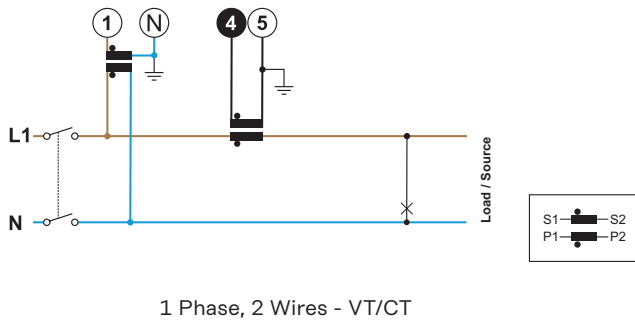


## Power Wiring

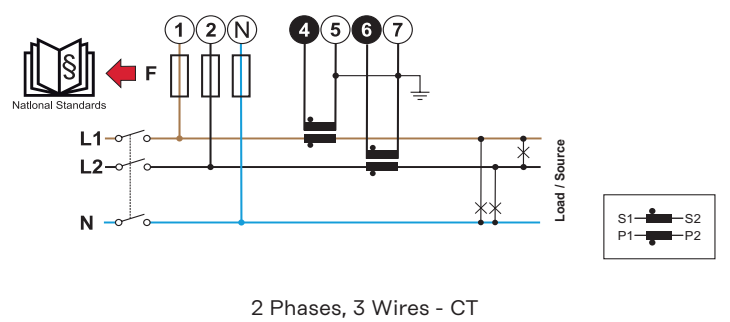
4a



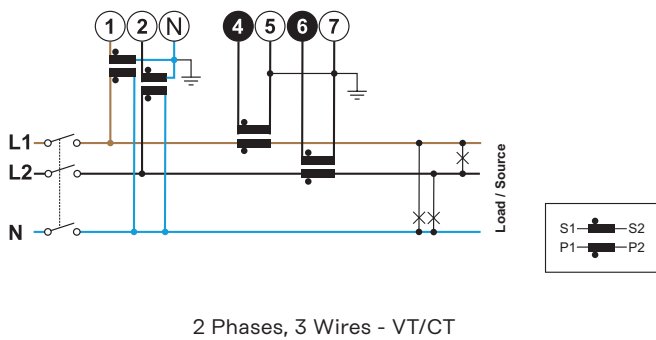
4b



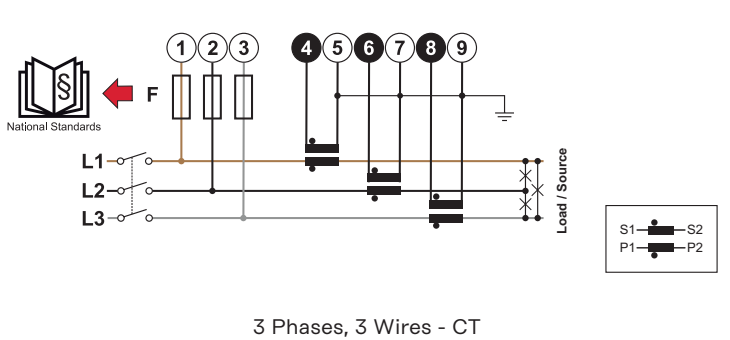
4c



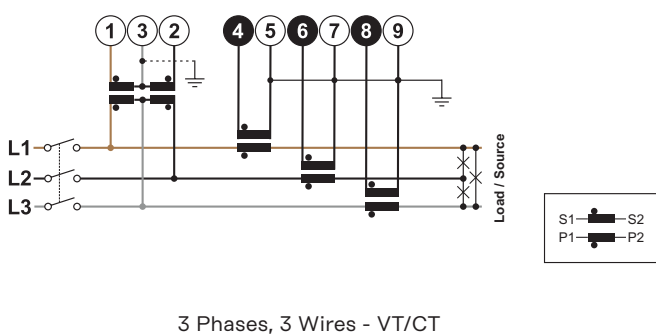
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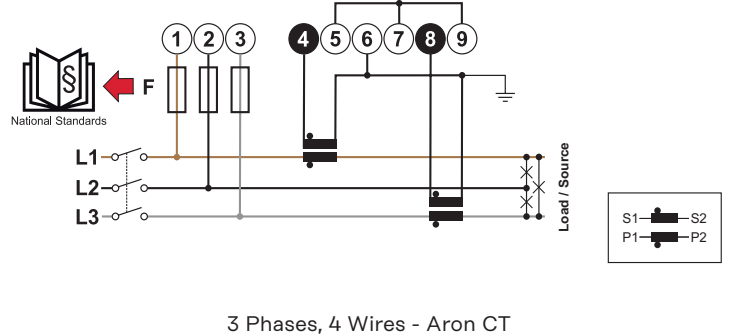
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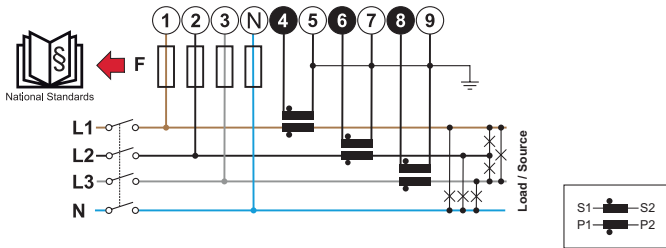
4f



4g

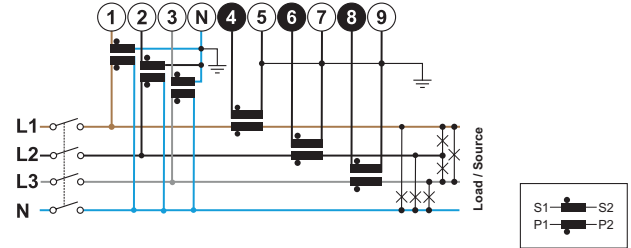


4h



3 Phases, 4 Wires - CT

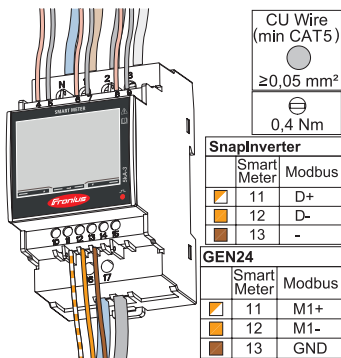
4i



3 Phases, 4 Wires - VT/CT

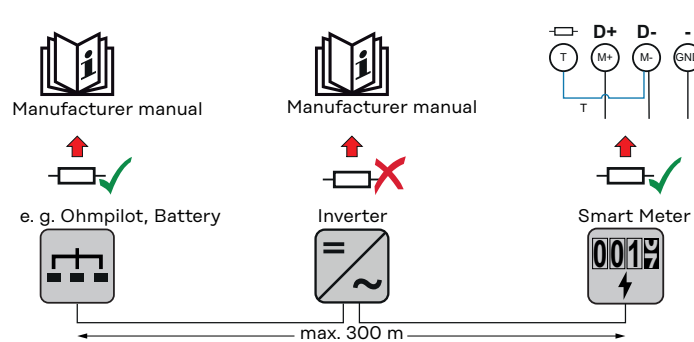
## Data wiring

5



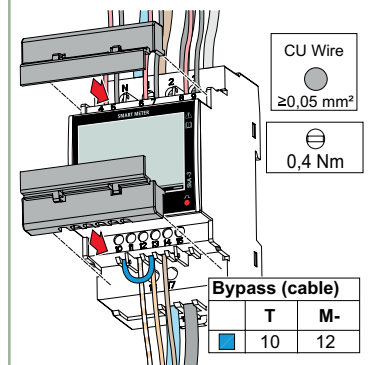
## Terminating Resistor

6

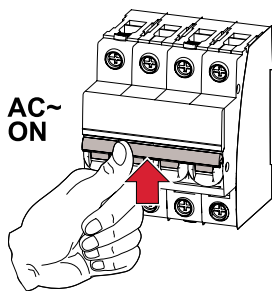


## Close &amp; Commissioning

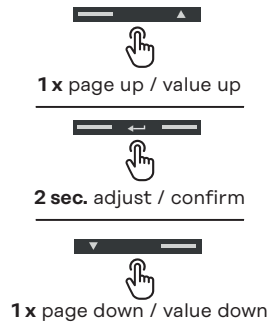
7



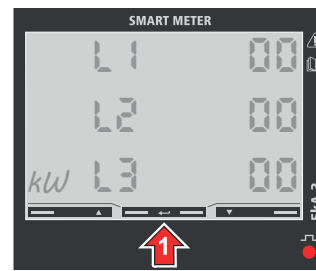
8



9

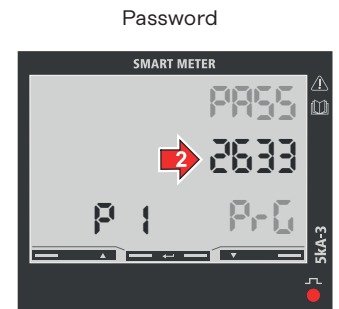


10



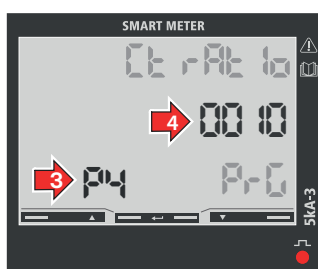
Enter settings

11



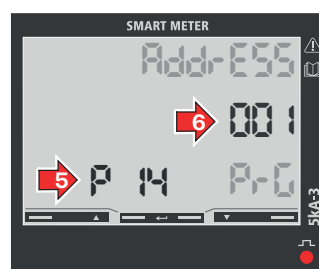
Factory default: 2633

12



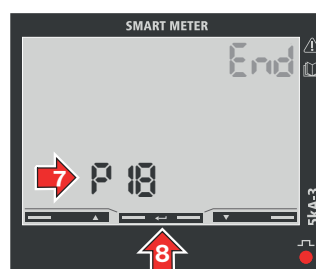
Transformation Ratio

13



Factory default: 001

14



Exit

15

