

## Power Meters

### Power Measurements

Depending on their use, different operating modes can be configured in the Solar-Log™ for the meters. It is possible to record production output (generator), consumption (consumption or bi-directional meter\*) and sub-consumer values such as battery charge levels. Due to the operating modes, the compatible meters can be used for a wide range of possible applications.



| Technical data               | Solar-Log™ PRO380-Mod three-phase current meter, MID (calibrated), RS485  | Solar-Log™ PRO380-Mod-CT, Transformer-connected meter, RS485, three-phase   | Solar-Log™ PRO1-Mod single-phase energy meter, 1-phase, MID (calibrated), RS485   | Solar-Log™ PRO2-Mod single-phase energy meter, 1-phase, MID (calibrated), RS485   |
|------------------------------|---|---|---|---|
| Connections                  | External tariff switching / 4-pin S <sub>0</sub> Out for A+, A- / 2-pin Modbus interface  | 2 x S <sub>0</sub> (forward, reverse) RS485 (Modbus) External tariff switching  | 2-pin S <sub>0</sub> -Out 2-pin Modbus interface  | 2-pin Modbus interface RTU interface  |
| Direct connection            | 100 A   | 6 A (Transformer input)   | 45 A  | 100 A   |
| Interfaces                   | S <sub>0</sub> / RS485 maximum 32 units   |
| Voltage U <sub>n</sub>       | 3 x 230 / 400V AC (-15% - +10%)   | 3 x 230 / 400 V AC (100 / 173V - 270 / 468V)  | 230 V AC  | 230 V AC  |
| Measuring range              | 20 mA - 100 A   | 6 mA - 5 A  | 20 mA - 45 A  | 20 mA - 100 A   |
| Self-consumption             | ≤ 10 VA - ≤ 2 W per phase   | ≤ 2 W per phase - ≤ 10 VA per phase   | ≤ 10 VA - ≤ 2 W per phase   | ≤ 10 VA - ≤ 2 W per phase   |
| Start-up current             | 20 mA   | 3 mA  | 20 mA   | 20 mA   |
| Power frequency              | 50 Hz   | 50 Hz   | 50 Hz   | 50 Hz ± 10 %  |
| Dimensions (w x h x d) in mm | 70 x 140 x 63   | 70 x 140 x 63   | 17,5 x 117 x 63   | 35,8 x 141,5 x 63   |
| Wire diameter                | Maximum 25 mm <sup>2</sup> or 2,5 mm <sup>2</sup> (Additional terminals)  | Maximum 10 mm <sup>2</sup> or 2,5 mm <sup>2</sup> (Additional terminals)  | Maximum 10 mm <sup>2</sup> or 2,5 mm <sup>2</sup> (Additional terminals)  | Maximum 25 mm <sup>2</sup> or 2,5 mm <sup>2</sup> (Additional terminals)  |
| Protection level             | IP51  | IP51  | IP51  | IP51  |
| LCD Display                  | 6 + 2 Digits  | 5 + 3 Digits  | 4 + 2 Digits  | 5 + 2 Digits (99999,11 kWh)   |
| S <sub>0</sub> pulse         | 1000 Imp / kWh  | 1000 Imp / kWh, 30 ms   | 2 000 Imp/kWh, RA = 0,5 Wh/Imp  | 1 000 Imp/kWh, 31ms   |
| Misc.                        | Blue illuminated display, one additional resettable counter, display for active and reactive power in two energy flow directions, Display: I, U, P, S, F, cos phi | Blue illuminated display, one additional resettable counter, display for active and reactive power in two energy flow directions, Display: I, U, P, S, F, cos phi | Blue illuminated display, one additional resettable counter, display for active and reactive power in two energy flow directions, Display: I, U, P, S, F, cos phi | Blue illuminated display, one additional resettable counter, display for active and reactive power in two energy flow directions, Display: I, U, P, S, F, cos phi |
| Warranty                     | 2 years   | 2 years   | 2 year  | 2 year  |
| Article number               | 255913  | 256059  | 255914  | 256324  |

## Article number

|   |        |
|---|--------|
| Solar-Log™ PRO380-CT 500A Measuring transformer for conductor line 30 x 10 mm or compact round cable up to 26 mm Class 1, uncalibrated, secondary current 5A  | 256067 |
| Solar-Log™ PRO380-CT 250A Measuring transformer for conductor line 30 x 10 mm or compact round cable up to 26 mm Class 1, uncalibrated, secondary current 5A  | 256068 |
| Solar-Log™ PRO380-CT 100A Measuring transformer for conductor line 30 x 10 mm or compact round cable up to 26 mm Class 1, uncalibrated, secondary current 5A  | 256069 |
| Solar-Log™ PRO380-CT 500A Cable split core current transformer Class 1, round cable up to 32 mm, uncalibrated, small size model, connecting cable 2.5 m included, secondary current 1A              | 256070 |
| Solar-Log™ PRO380-CT 250A Cable split core current transformer Class 3, round cable up to 18 mm, uncalibrated, small size model, connecting cable 2.5 m included, secondary current 1A              | 256071 |
| Solar-Log™ PRO380-CT 100A Cable split core current transformer Class 3, round cable up to 18 mm, uncalibrated, small size model, connecting cable 2.5 m included, secondary current 1A              | 256072 |
| Solar-Log™ PRO380-CT 500A, Class 0.5, Measuring transformer for conductor line 30 x 10 mm or compact round cable up to 26 mm, Declaration of Conformity, approval for billing, secondary current 5A | 256073 |
| Solar-Log™ PRO380-CT 250A, Class 0.5, Measuring transformer for conductor line 30 x 10 mm or compact round cable up to 26 mm, Declaration of Conformity, approval for billing, secondary current 5A | 256074 |
| Solar-Log™ PRO380-CT 100A, Class 0.5, Measuring transformer for conductor line 30 x 10 mm or compact round cable up to 26 mm, Declaration of Conformity, approval for billing, secondary current 5A | 256075 |



Measuring transformer



Cable split core current transformer