

## Power Meters

### Power Measurements

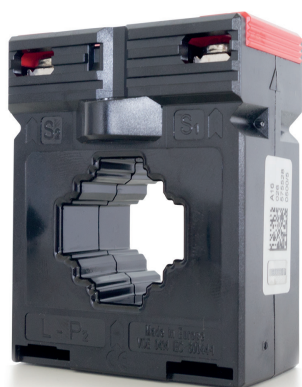
Depending on their use, different operating modes can be configured in the Solar-Log™ for the meters. It is possible to record production output (generator), consumption (consumption or bi-directional meter) and sub-consumer values such as battery charge levels. Due to the operating modes, the compatible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



| Technical data               | Solar-Log™ PRO380, three-phase current meter, MID (calibrated), RS485                                                                                             | Solar-Log™ PRO380-CT, Transformer-connected meter, RS485, three-phase                                                                                             | Solar-Log™ PRO1, single-phase energy meter, 1-phase, MID (calibrated), RS485                                                                                      | Solar-Log™ PRO2, 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                                                                                                                           | S <sub>0</sub> / RS485 maximum 32 units                                                                                                                           | S <sub>0</sub> / RS485 maximum 32 units                                                                                                                           | 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