Solar-Log™

Power Meters

Power measurements

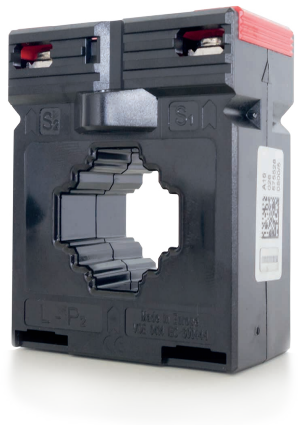


Depending on their use, different operating modes can be configured in the Solar-Log™ for the meters.
It is possible to record production output (generator), consumption (consumption or bi-directional meter) and sub-consumer values such as battery charge levels. When used as a Utility Meter, the voltage or the voltage and current can be recorded for reactive power. The combination of Utility Meter and bi-directional meter is possible. 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	Iskra uncalibrated, 1-phase, S_0	Iskra uncalibrated, 3-phase, S_0
Connections	External tariff switching/ 4-pin S_0 Out for A+, A- / 2-pin Modbus interface	2 x S_0 (forward, reverse) RS485 (Modbus) External tariff switching	6-pin S_0-In / Out connector / max. cable length 10 m	
Direct connection	100 A	6 A (Transformer input)	80 A	65 A
Interfaces	S_0/RS485 max. 32 units	S_0/RS485	S_0	$_{S0}$
Voltage U_n	3 x 230/400V AC (-15% - +10%)	3 x 230 / 400 V AC (100/173V - 270/468V)	230 V -20 % – +15 %	3 x 230 V / 400 V -20 % – +15 %
Measuring range	20 mA - 100 A	6 mA - 5 A	4 mA – 80 A	4 mA – 65 A
Self-consumption	< 10 VA - < 2 W per phase	≤ 2 W per phase - ≤ 10VA per phase	< 8 VA	< 6 VA
Start-up current	20 mA	3 mA	20 mA	20 mA
Power frequency	50Hz (+-10%)	45 - 60 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz
Dimensions (w x h x d) in mm	70 x 140 x 63	70 x 140 x 63	36.5 x 100.5 x 65	65,11 x 84,25 x 53,57
Wire diameter	25 mm^2	Max. 10mm^2 or 2,5mm^2 (Additional terminals)	2.5 - 10 mm^2	2.5 – 16 mm^2
Protection level	IP51	IP51	IP20	IP20
LCD display	6 + 2 Digits	5 + 3 Digits	2 x 7-digit-LCD	6+1 digit, 100 Wh resolution
S_0 pulse	1000 p / kWh	10000 Imp/kWh, 30 ms	1000 p / kWh	500 p / kWh
Misc.	Blue illuminated display One additional re-settable counter Display for active and reactive power consumption in two energy flow directions Display: I, U, P, S, F, cos phie	Blue illuminated display One additional re-settable counter Display for active and reactive power consumption in two energy flow directions Display: I, U, P, S, F, cos phie	2 counters: 1x total, 1x resettable	no LCD display
Warranty	2 years	2 years	1 year	1 year
Article number	255913	256059	255346	255347

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, non calibrated, 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, non calibrated, 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, non calibrated, secondary current 5A	256069
Solar-Log™ PRO380-CT 500A Cable split core current transformer Class 1, round cable up to 32 mm, non calibrated , 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, non calibrated , 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, non calibrated , small size model, connecting cable 2,5 m included, secondary current 1A	256072
Solar-Log™ PRO380-CT 500A, Class 0,5, Measuring transformerfor 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