

For a complete overview of all the display values available in the manual mode, please refer to the technical descriptions in the download section at [www.kdk-dornscheidt.de](http://www.kdk-dornscheidt.de)

### Changing the Modbus address by using the touch panel keys on the meter

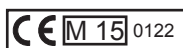
The Modbus address can be changed from the Program Menu (see supplementary sheet) under "PRO - 2." Additional changes are possible. A password is required to access the sub-menu "PRO - 3." The default password is "0000" – it can be changed via the programming.



#### Attention

Measurement for billing purpose only with MID confirmed meters.

#### Example for MID-labeling:



	We, Inepro Metering BV <small>(supplier's name)</small>
	Pondweg 7 2153 PK Nieuw-Venep The Netherlands <small>(supplier's address)</small>
	declare under our sole responsibility that the product: PRO380-S DC PRO380-Mb DC PRO380-Mod DC PRO380-S CT PRO380-Mb CT PRO380-Mod CT
	Three phase DIN rail Watt Hour meter <small>(Name, type or model, batch or serial number, possibly source and number of items)</small>
<small>This declaration of Conformity is suitable to the European Standard EN 45014 General Criteria for Supplier's Declaration of Conformity. The basis for the criteria has been found in international documentation, particularly in ISO / IEC, Guide 22, 1982, Information on manufacturer's Declaration of Conformity with standards or other technical specifications</small>	to which this declaration relates in conformity with the following European harmonized and published standards at date of this declaration: EN 50470 <small>(Title and or number and date of issue of the applied standard(s))</small>
	Following the provisions of the Directives (if applicable): <input checked="" type="checkbox"/> N/A
	Nieuw-Venep, 2013, Oktober 31 <small>Place and date of issue</small>
	D. van der Vaart <small>Name of responsible for CE-marking</small>

For further requests regarding Solar-Log™, or meter configuration inside Solar-Log™ please consider: [info@solar-log.com](mailto:info@solar-log.com)

or: +49 (0)7428/4089-300

For further requests regarding the PRO meter please consider:

[info@kdk-dornscheidt.com](mailto:info@kdk-dornscheidt.com)

or: 02244 / 919940

## Quick Start Guide



Solar-Log™ PRO380

Electronic three-phase energy meter

for DIN-railmount, with MID-confirmation and ModBus-interface.

#### Please note

This document is only a quick reference guide and does not handle every function. The complete users guide is available at: [www.kdk-dornscheidt.de](http://www.kdk-dornscheidt.de)

#### Information for your safety

This quick start guide does not contain all of the safety instructions for operating the meter. Due to special operating conditions and/or local laws and regulations, additional measures may be required.

#### Trained Personnel

The meter may only be installed and connected by a trained, qualified specialist. Trained, qualified specialists are those who are certified to put devices, systems and circuits into operation, to switch them on, to ground them and to mark them according to safety standards and regulations.



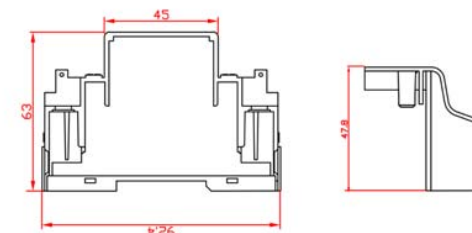
#### Attention

Case is sealed, do not open the meter! No warranty if case is opened or seal is removed.

Please check that all cables are free from mechanical stress after assembly.

#### Dimensions (mm)

Width:	70,0 mm
Height with cover:	140,0 mm
Height without cover:	92,4 mm
Depth:	63,0 mm



## Meter type: PRO380, 100A

### Technical data

Nominal voltage	230 / 400 V AC	
Current	0,25 - 5(100) A	
Frequency	50 Hz	
Measurement	Active- and Reactive energy in forward and reverse direction	
Accuracy class	B	
Power consumption	< 10 VA - < 2 W	
Start-up current	20 mA	
Width	4 TE (70 mm)	
Pulse Output LED	10,000 Imp/kWh, 30 ms	
S <sub>0</sub> -pulse output:	1,000 Imp/kWh, 30 ms	
Temperature range	-40°C to +70°C	
Max. rel. humidity	75 % average, 95 % short term	
Registered harmonics:	0.05 - 0.25 kHz	
LED blinking red	consumption >4W, pulsrate= consumption	
Display	6 + 2 Digits (999999,11 kWh)	
Max diameter	Mainclamps:	Flexible cable up to max. 25 mm <sup>2</sup>
	Additional clamps:	Rigid cable up to max. 35 mm <sup>2</sup>
Baud rate ModBus	9,600 baud	

### Connection diagram

#### Connection diagram 1000 (DIN 43856)

Input „L1, L2, L3“	Input Phase L1, L2, L3
Output „L1, L2, L3“	Output Phase L1, L2, L3
Clamp „N“	Neutral connection N
Clamps 18, 19	S <sub>0</sub> -pulse output "Forward" (Kl. 18= „+“)
Clamps 20, 21	S <sub>0</sub> -pulse output "Reverse" (Kl. 20= „-“)
Clamps 22, 23	ModBus-connection 22->A, 23->B
Clamps 24, 25	External Tariff (230V AC)

### Connection diagram for different operating modes

#### Solar-Log™ PRO380 (RS485 oder S<sub>0</sub>) connection assignments

The meter connection are labeled IN (bottom) and OUT (top). As consumption or sub-consumption meter:

Connection to the grid ( IN) - connection for appliances (OUT)

As inverter / production meter: Connection for the production (IN) - connection to the grid (OUT)

#### Solar-Log™ PRO380 connection assignments (only RS485)

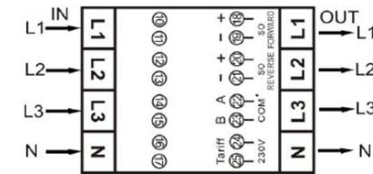
As consumption meter (bi-directional): OUT = connection to the grid – IN = connection to the house / plant

As battery meter (bi-directional): IN = connection to the grid - OUT = connection to the battery

Please note that only the Solar-Log™ PRO380 can operate on the RS485 interface. It is not possible to combine the operation with other components.

#### Terminal block connector Solar-Log™

Terminal	Solar-Log Base	PRO380
1->	(A) 6 or (B) 10 (Data+)	22 (A)
4->	(A) 9 or (B) 13 (Data-)	23 (B)



If the meter is the last device on the bus, it has to be terminated at connection block 22 and 23 with a resistor (120 Ohm / 0,25 W).

#### All display values of the meter

Change the meter from the automatically rotating display to the manual display by pressing the keys.

Pressing on the keys here allows all of the available display values to be accessed in sequence. If no keys are pressed after a short time, the meter reverts back to the automatic display mode.

Data shown in the automatic scroll sequence:

	Indicator for energy direction per phase 1 2 3 r = Reverse F = Forward
	Active energy (forward) in kWh (OBIS: 1.8.0) Accumulating
	Active energy (reverse) in kWh (OBIS: 2.8.0) Accumulating
	Active power (total)