

The following values are displayed successively in the automatically rotating display:

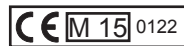
	Energy flow direction display per phase 1 2 3 R = Reverse, F = Forward
	Active energy (forward) in kWh (OBIS: 1.8.0) Accumulating
	Active energy (reverse) in kWh (OBIS: 2.8.0) Accumulating
	Active power (total)

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

Changing the Modbus address with the sensor buttons 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.

Example of the MID label



The declaration of conformity and certification (EN 50470) you will find current on: www.kdk-dornscheidt.de

	We,
	Inepro Metering BV <small>(supplier's name)</small>
	Pondweg 7 2153 PK Nieuw-Vennep 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-Vennep, 2013, Oktober 31 <small>Place and date of issue</small>
	D. van der Vaart <small>Name of responsible for CE-marking</small>

For questions about the Solar-Log™ or on how to configure the meter in the Solar-Log™, please contact our support team:

info@solar-log.com

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

For questions about the meter, please contact the manufacturer: info@kdk-dornscheidt.com

or: +49 2244 919940

Quick Start Guide

Solar-Log™ PRO380-CT
Electronic A.C. current meter for DIN rail mounting with MID declaration of conformity and ModBus interface (converter connection meter)



Warning



The meter's case is sealed and may not be opened. Opening the meter and/or breaking the seal invalidates the warranty. Please make sure that all of the cables are mounted free from mechanical stress.

Only meters with the MID declaration of conformity can be used for tariff applications.

Important note on adjusting the converter ratio.

The converter ratio can only be set once with this meter.

When the meter is connected to power, the display alternates between "Set CT" and "CT5 0005." If one of the arrow keys is pressed, the first number from the left blinks. Define the secondary power between /1A and /5A and confirm the selection by pressing both of the arrow keys at the same time for 3 seconds. After that, define the primary current by selecting the 4 numbers from left to right with the keys as described above. Confirm every number by pressing both arrow keys for 3 seconds.

The primary power can be freely defined in steps of 5A from 0005 to 9995. Once the last digit has been confirmed, the converter ratio is saved and cannot be changed again.

Please note

This document is only a quick start guide and does not cover all of the device's functions. Detailed specifications and descriptions are available at 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

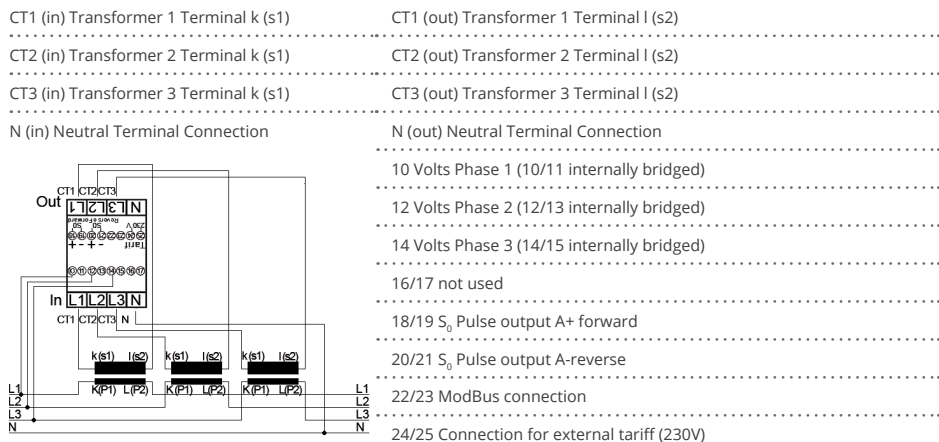
The meter may only be installed and connected by a trained, qualified specialist. Trained, qualified specialists are those who are certified to put devices, systems and circuits into operation, to switch them on, to ground them and to mark them according to safety standards and regulations.

Meter type: PRO380-CT

Technical Data

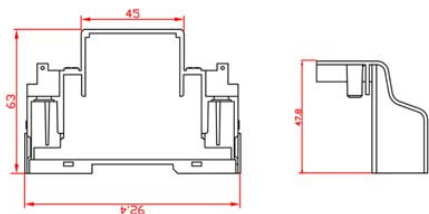
Nominal voltage	230 / 400 V AC	
Current	0.015 - 1.5 (6) A	
Frequency	50 Hz	
Measured value	Active- and Reactive energy in forward and reverse direction	
Accuracy class	B	
Self-consumption	< 10 VA - < 2 W	
Start-up current	3 mA	
Width	4 TE (70 mm)	
Pulse output LED	10,000 Imp/kWh, 2.5 ms	
S ₀ Pulse output	10,000 Imp/kWh, 30 ms	
Operating temperature	-25°C to +70°C	
Max. relative humidity:	75 % on average, temporary 95 %	
Registered harmonic	0.05 - 0.25 kHz	
LED	blinking red: Supply > 4 W, pulse rate = consumption	
Display	5 + 3 Digits (99999,111 kWh)	
Maximum cable cross-section	Main terminal blocks:	max. 10 mm ²
	Additional terminals:	max. 2.5 mm ²
Baud rate ModBus	9,600 baud	

Connection diagram



Dimensions (mm)

Width:	70.0 mm
Height with cover:	140.0 mm
Height without cover:	92.4 mm
Depth:	63.0 mm



Pulse outputs (S₀)

The pulse output from the Solar-Log™ PRO380-CT delivers a pulse that corresponds to the secondary measured kWh (kvar) values. The pulse length of the pulse output is permanently set to 30 ms.

Connection diagram for different operating modes

Solar-Log™ PRO380-CT (RS485 or S₀) connection assignments

The meter connections 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-CT connection assignments (only RS485)

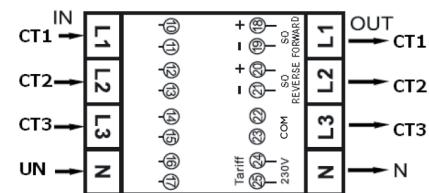
As consumption meter (bi-directional): OUT = connection to the grid – IN = connection to the house/plant

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

Please note that only Solar-Log™ PRO380-CT meters can operate on the RS485 interface (one or several). It is not possible to combine the operation with other components.

Terminal block connector Solar-Log™ (RS485) Solar-Log Base PRO380-CT (COM)

Terminal	Terminal	Terminal
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 / 0.25W).

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. Please refer to the attached table for the menu navigation. If no keys are pressed after a short time, the meter reverts back to the automatic display mode.