



I'CHECKER

Article nos., advanced: 422.005, -015, -025, -105, -115, -125

Premium: 422.007, -017, -027, -107, -117, -127

FUNCTIONAL DESCRIPTION

The i'checker can be integrated into every generator terminal box and can also be easily installed at a later date. The i'checker can measure direct or alternating current. The cable carrying current is routed through the i'checker and the sensor is mounted on a top-hat rail in the generator terminal box. Regardless of whether the i'checker is positioned before or after the inverter, it reliably measures the current.

Inexpensive monitoring in the „local“ model without WEB'log

For example, if a solar energy plant does not generate any power for 24 hours, the warning lamp flashes and the connected signaling device issues an alarm.

Flexible in combination with WEB'log and safer'Sun

The i'checker transfers the measured current values to the data logger. Up to 100 i'checker can be connected to a WEB'log.

The current measured by the i'checker is evaluated and visualized by means of the connection to the safer'Sun Internet portal.

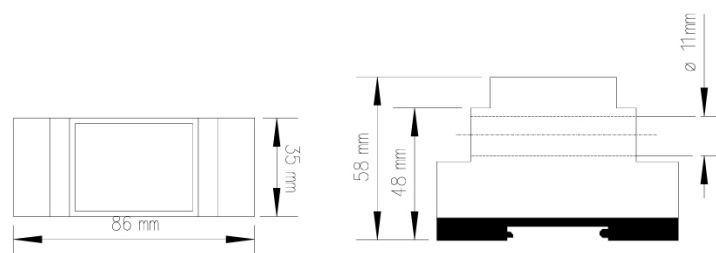
FEATURES

- Suitable for direct and alternating current
- RS485 bus connection via RJ45
- Top-hat rail assembly
- LED indication
- Own „evaluation intelligence“ for generating alarms
- Switching output for local alarms
- Acoustic („local“ model) and visual fault indication

Premium:

- Ideal for large-sized systems
- Optimized for long communication paths

DIMENSIONS



TECHNICAL DATA

	Advanced	Premium
Rated current I_N / AC measurement range:	10 A, 25 A, 50 A	10 A, 25 A, 50 A
Rated current I_N / DC measurement range:	14 A, 35 A, 70 A	14 A, 35 A, 70 A
Interface:	RS485	RS485
Connection:	RJ45	RJ45
Address range:	0...99	0...99
Baud rates:	4.800* ¹ , 9.600, 19.200, 38.400, 57.600	4.800* ¹ , 9.600, 19.200
Operating voltage (DC):	18.0 V to 26.4 V	20.0 V to 26.4 V
Operating current (min. and max.):	min.: 14 mA / max.: 37 mA	min.: 29 mA / max.: 48 mA
Average current:	19 mA (approx.)	34 mA (approx.)
Alarm output:	Switches to GND, carries loads of up to 50 mA indicated by LED* ²	Switches to GND, carries loads of up to 50 mA, indicated by LED* ²
Operating temperature:	-20°C to 85°C	-20°C to 85°C
Storage temperature:	-20°C to 85°C	-20°C to 85°C
Relative humidity:	20 % to 90 %, noncondensing	20 % to 90 %, noncondensing
Typical measurement imprecision for rated current I_N ($T_A = 25^\circ\text{C}$):	< 2 %	< 2 %
Maximum deviation for rated current I_N ($T_A = 25^\circ\text{C}$):	< 3 %	< 3 %
Linearity errors* ³ :	< 1 %	< 1 %
Temperature coefficient:	< 0.03 %/K	< 0.03 %/K
Hysteresis offset* ⁴ :	< 1 % I_N	< 1 % I_N
Maximum cable cross-section:	11 mm	11 mm

*¹ cannot be used with auto baud *² not permanently short-circuit-proof *³ as of 0.2 I_N except for offset *⁴ after applying $1 \times I_N$

CURRENT FLOW DIRECTION (DC)

