



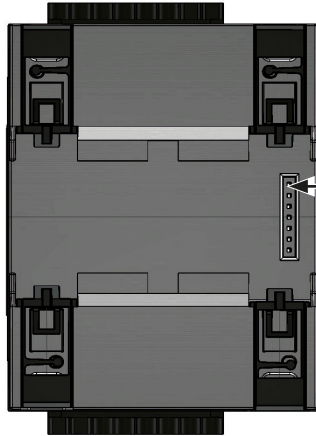
Current measuring module 800-CT8-A

Data sheet

Device views

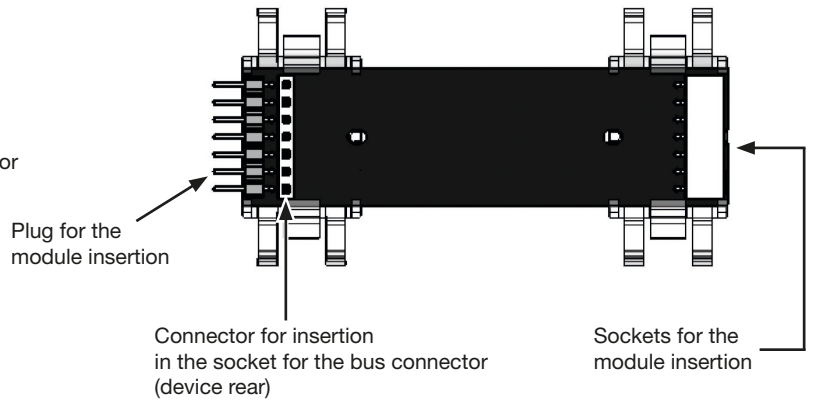
- The figures serve as illustrations and are not true to scale.
- Dimensions in mm (in).

Rear view

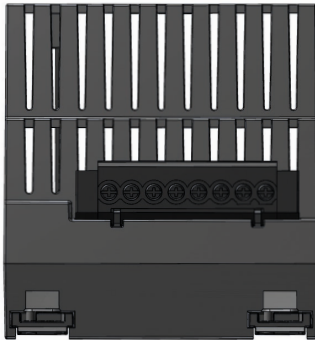


Socket for
bus connector

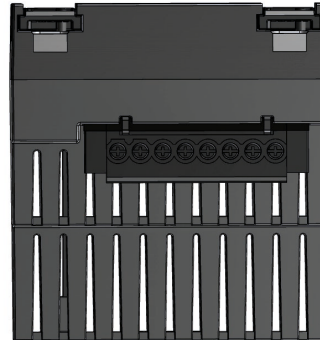
Bus connector for transfer module - output



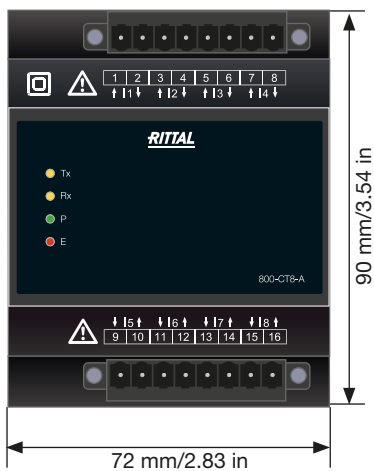
View from below



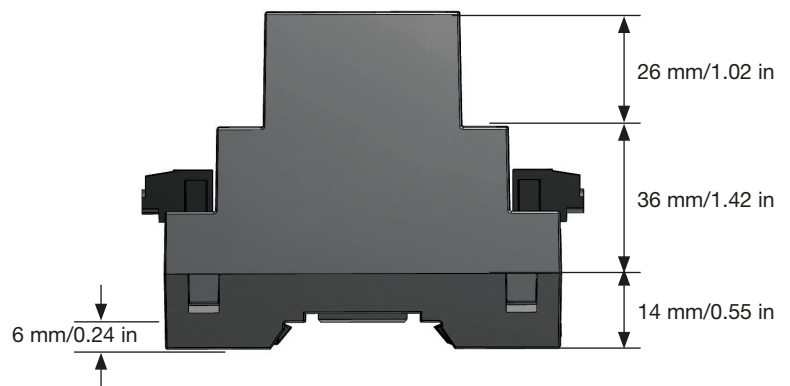
View from above



Front view



View from the left



Technical data

General	
Net weight	220 g (0.49 lb)
Device dimensions	W = 72 mm (w = 2.83 in), H = 90 mm (h = 3.54 in) , D = 76 mm (d = 2.99 in)
Width of the device in horizontal pitches	4 HP (1 HP = 18 mm)
Mounting orientation	As desired
Mounting/assembly - suitable DIN rails (35 mm / 1.38 in)	TS 35/7,5 according to EN 60715 TS 35/10 TS 35/15 x 1,5
Protection against foreign matter and water	IP20 according to EN60529
Impact resistance	IK07 according to IEC 62262

Transport and storage	
The following information applies to devices which are transported and stored in the original packaging.	
Free fall	1 m (39.37 in)
Temperature	K55: -25 °C (-13 °F) to +70 °C (158 °F)
Relative humidity	0 to 95% RH at 25 °C (77 °F), no condensation

Environmental conditions during operation	
The module · must only be operated with suitable basic devices (see user manual). · is for weather-protected and stationary use. · fulfills the operating conditions according to DIN IEC 60721-3-3. · has protection class II according to IEC 60536 (VDE 0106, Part 1), a ground wire connection is not required!	
Working temperature	-10 °C (14 °F) to +55 °C (131 °F)
Relative humidity	5 to 95% at 25 °C (77 °F), no condensation
Pollution degree	2
Ventilation	No forced ventilation required
Supply voltage	Via basic device

Current measuring module 800-CT8-A	
Nominal current	5 A
Channels	8 (2x4) · 2 systems - L1, L2, L3, N · Single channels
Measuring range	0.005 .. 6 A
Crest factor	2 (relative to 6 A _{eff})
Overload for 1 s	120 A (sinusoidal)
Resolution	0.1 mA (color graphic display 0.01A)
Overvoltage category	300 V CATII
Rated surge voltage	2.5 kV
Power consumption	approx. 0.2 VA (R _i = 5 mΩ)
Sampling frequency	8.3 kHz
Frequency of the basic oscillation	40 Hz .. 70 Hz
Harmonics	1. .. 25 (odd only)

Interface and energy supply	
JanBus (proprietary)	· Via bus connector
Supply voltage (via JanBus interface)	24 V

Connecting capacity of the terminals	
Connectible conductors. Only connect one conductor per terminal point!	
Single core, multi-core, fine-stranded	0.2 - 2.5 mm ² , AWG 26-12
Wire ferrules (non-insulated) - Recommended strip length	0.2 - 2.5 mm ² , AWG 26-12 - 10 mm (0.3937 in)
Wire ferrules (insulated) * - Recommended strip length **	0.2 - 2.5 mm ² , AWG 26-12 - 12 mm (≤ 1.5 mm ²), 10 mm (> 1.5 mm ²) / 0.47 in (≤ 1.5 mm ²), 0.39 in (> 1.5 mm ²)
Wire ferrules: Contact sleeve length **	8 - 12 mm (0.31 - 0.47 in)
Screw flange tightening torque	0.2 Nm (1.77 lbf in)

* ... Applies to ferrules with a maximum outer diameter of the plastic collar up to 4.5 mm (0.18 in).

**.. Depending on the type of ferrule used (ferrule manufacturer).

Function characteristics

(Only valid in connection with REM 801!)

Function	Symbol	Accuracy class - 5 A rated current	Metering range	Display range
Total active power	P	0.5 (IEC61557-12)	0 .. 12.6 kW	0 .. 999 GW
Total reactive power	QA, Qv	1 (IEC61557-12)	0..16.6 kvar	0 .. 999 Gvar
Total apparent power	SA, Sv	0.5 (IEC61557-12)	0 .. 12.6 kVA	0 .. 999 GVA
Total active energy	Ea	0.5 (IEC61557-12) 0.5S (IEC62053-22)	0 .. 999 GWh	0 .. 999 GWh
Total reactive energy	ErA, ErV	1 (IEC61557-12)	0 .. 999 Gvarh	0 .. 999 Gvarh
Total apparent energy	EapA, EapV	0.5 (IEC61557-12)	0 .. 999 GVAh	0 .. 999 GVAh
Phase current	I	0.5 (IEC61557-12)	0 .. 7 Aeff	0 .. 999 kA
Neutral conductor current calculated	INc	1.0 (IEC61557-12)	0.03 .. 25 A	0.03 .. 999 kA
Power factor	PFA, PFV	1 (IEC61557-12)	0.00 .. 1.00	0.00 .. 1.00
Current harmonics	Ih	Cl. 1 (IEC61000-4-7)	1. .. 25 (odd only)	0 A .. 999 kA
THD of the current	THDI	1.0 (IEC61557-12)	0 .. 999%	0 .. 999%

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