



SINGLE LOAD SL1

DIGITAL METERING SYSTEM

KEY FEATURES

- Modbus RTU RS485 as standard
- User-programmable CT ratio and system configuration
- True rms measurement
- Continuous busbar or individual busbar metering

TE Connectivity's (TE) Crompton Instruments Integra SL1 is a digital metering system which provides measurement, isolation, and conversion of all main electrical parameters from a three-phase load, in a single meter. It can be used in single and three-phase unbalanced four-wire electrical systems and as the accuracy of CL0.5.

The Integra SL1 has an integrated microprocessor for a high waveform handling of distorted waveforms and is ideal for low voltage applications. It provides a cost-effective way of metering split load distribution and panel boards, in a single metering solution.

Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.

Single Load SL1



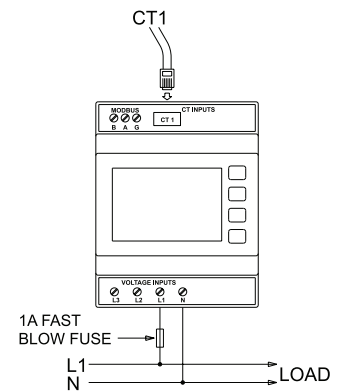
PRODUCT SPECIFICATION

| Input | |
|---|---|
| Nominal input voltage | 100 V to 230 V AC rms., L - N. 173 V to 400 V AC rms.,L - L |
| Max. continuous input overload voltage | 120% of nominal |
| Max. short duration input voltage (1 sec) | 2 x nominal voltage |
| Nominal input voltage burden | 0.2 VA per phase (Except L1)**Self powered using the meter electrical input from L1 (6VA) |
| Nominal input current | 100 mA AC rms. per CT |
| System CT primary values | 1-9999 A (selectable from display) |
| CT burden | 0.1 VA |
| Accuracy | |
| Voltage (V) | < 0.5% |
| Current (A) | < 0.5% |
| Frequency (Hz) | < 0.2% of mid range |
| Power factor (PF) | 1% of unity |
| Active power (W) | +/- 1.0% Class 1 IEC 62053-21 |
| Active energy (kWh) | +/- 1.0% Class 1 IEC 62053-21 |
| Range | |
| Voltage (V) | 5% to 120% for nominal |
| Current (A) | 5% to 120% of nominal |
| Frequency | 45 - 65 Hz |
| Power | 1 - 144% of nominal 0.8 capacitive - 1 - 0.8 |
| Power factor | Inductive (functional 4 quadrant, 0-1 lag lead) |
| Energy | 6-digit resolution and to be displayed in kWh (Maximum display 999999, before rollover to 0) |
| Outputs | |
| Communication protocol | RS485 Modbus RTU |
| Type | 2-wire half duplex |
| Baud rate | 9600, 19200, 38400 |
| Enclosure | |
| Enclosure style | DIN-rail mounting EN43880 |
| Dimensions | 72 x 90 x 62 mm |
| Material | Polycarbonate to UL94-V0 |
| Weight | 0.25 kg |
| Terminals voltage | Shrouded screw-clamp 0.05 - 4 mm wire |
| Terminals CT | RJ12 connector |
| Sealing | IP52 front of panel |
| Environment | |
| Operating temperature | -10°C to +55°C |
| Storage temperature | -20°C to +70°C |
| Relative humidity | 0-90% non-condensing |
| Shock | 30 g in 3 planes and vibration of 0 Hz to 50 Hz IEC 60068-2-6, 2 g |
| Vibration | 0 Hz to 50 Hz, IEC 60068-2-6, 2 g. Withstand test 2.2 kV, 50 Hz for 1 minute between auxiliary / input / output |

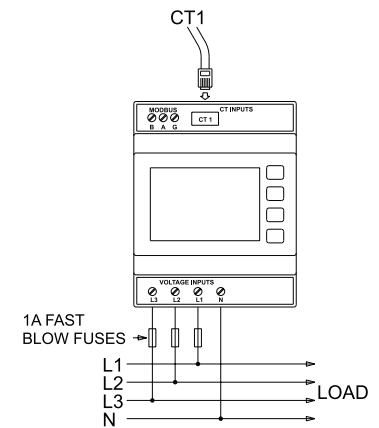
PRODUCT CODES

| Description | Description Part Number |
|--|-------------------------|
| Integra SL1 multifunction DIN-rail LCD Input 400 V L-L, 100 mA AC Modbus RTU RS 485 Self powered | SL1-01 |

Dimensions



Single-phase, 2-wire



3 phase, 4-wire

FOR MORE INFORMATION: TE Technical Support Centers

| | |
|----------------------|----------------------|
| USA/Canada: | +1 800-327-6996 |
| Brazil: | +55 11-2103-6023 |
| Mexico: | +52 55-1106-0800 |
| South America: | +57 1-319-8962 |
| Benelux: | +32 16-508-695 |
| France: | +33 (0) 38-058-3210 |
| Germany/Switzerland: | +49 (0) 89-608-9903 |
| Italy: | +39 335-834-3453 |
| Middle East/Africa: | +971 4-211-7020 |
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| Spain/Portugal: | +34 912-681-885 |
| UK: | +44 08708-707-500 |
| China: | +86 400-820-6015 |

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