

# **INTEGRA RI3** DIGITAL METERING SYSTEM

### **KEY FEATURES**

- DIN-rail enclosure DIN 43880
- Backlit LCD screen
- Programmable CT ratio
- True rms measurement
- User programmable system configuration
- Pulsed output and Modbus as standard

TE Connectivity's (TE) Crompton Instruments Integra Ri3 is the first model of a new generation of Digital Metering System (DMS) part of our Integra series.

The Integra Ri3 DMS is an accurate and cost-effective solution for measurement and display of all 17 electrical parameters including total harmonic distortion (THD) measurement up to the 31st harmonic. Its DIN-rail enclosure makes it easy to install, and its backlit LCD display has a user-friendly navigation system for simple energy management.

The Integra Ri3 is built to high-quality standards utilizing the latest microprocessor and manufacturing technology.

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



Input

**PRODUCT SPECIFICATION** 





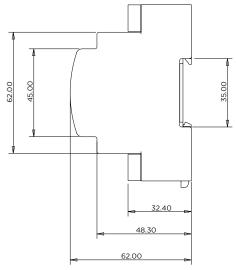
#### Nominal input voltage 100-289V AC L-N (173-500V AC L-L) Max. continuous input overload voltage 120% of nominal 2 x range maximum (1 second application repeated Max, short duration input voltage 5 times at 5 minute intervals) Nominal input voltage burden < 0.2VA per phase 5A AC rms Nominal input current Max. continuous input overload voltage 120% of nominal 10 x nominal (1 second application repeated Max, short duration input current 5 times at 5 minute intervals) < 0.6VA per phase Nominal input current burden 45-66Hz Frequency System CT primary values 1 to 9999 Auxiliary 110-400V AC nominal +/-10% (99-440V AC absolute limits) or 120-350V DC +/-20% (96-420V DC absolute Operating range limits) Burden < 10VA/5W Accuracy Voltage (V) 0.50% 0.50% Current (A) Neutral current calculated (A) 4% Frequency (Hz) 0.1 Hz Power factor (PF) 1% of unity Active power (W) +/- 1% of range Reactive power (VAr) +/- 1% of range Apparent power (VA) +/- 1% of range Active energy (kWh) Class 1 (IEC 62053-21) Reactive energy (kVArh) +/- 1% of range THD 1% up to 31st harmonic Response time 1sec Output Pulse output relay 1 50mA max at 250V AC Contact rating Туре Solid state relay RS485 Modbus output module 1 Modbus channel 2-wire half duplex Туре 2400, 4800, 9600, 19200, 38400 **Baud** rate Enclosure Enclosure style DIN-rail Dimensions 72x90mm (width x height) as per DIN 43880 Front protection rating IP52 Case protection rating IP30 Polycarbonate to UL94V0 Material Weight 300g Terminals Shrouded screw-clamp 0.05-4mm wire

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## Dimensions



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