



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.

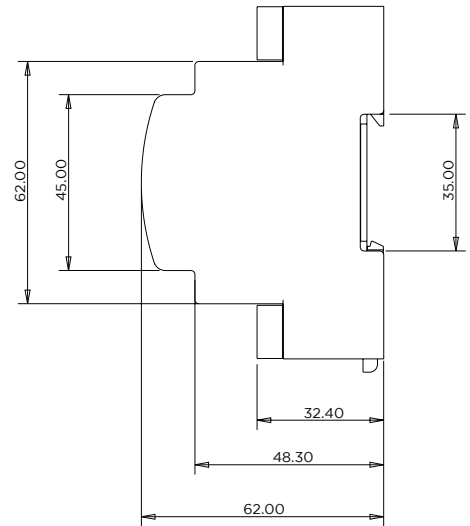
The Integra Ri3 is built to high-quality standards utilizing the latest microprocessor and manufacturing technology.

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



PRODUCT SPECIFICATION	
Input	
Nominal input voltage	100-289V AC L-N (173-500V AC L-L)
Max. continuous input overload voltage	120% of nominal
Max. short duration input voltage	2 x range maximum (1 second application repeated 5 times at 5 minute intervals)
Nominal input voltage burden	< 0.2VA per phase
Nominal input current	5A AC rms
Max. continuous input overload voltage	120% of nominal
Max. short duration input current	10 x nominal (1 second application repeated 5 times at 5 minute intervals)
Nominal input current burden	< 0.6VA per phase
Frequency	45-66Hz
System CT primary values	1 to 9999
Auxiliary	
Operating range	110-400V AC nominal +/-10% (99-440V AC absolute limits) or 120-350V DC +/-20% (96-420V DC absolute limits)
Burden	< 10VA/5W
Accuracy	
Voltage (V)	0.50%
Current (A)	0.50%
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
Contact rating	50mA max at 250V AC
Type	Solid state relay
RS485 Modbus output module	1 Modbus channel
Type	2-wire half duplex
Baud rate	2400, 4800, 9600, 19200, 38400
Enclosure	
Enclosure style	DIN-rail
Dimensions	72x90mm (width x height) as per DIN 43880
Front protection rating	IP52
Case protection rating	IP30
Material	Polycarbonate to UL94V0
Weight	300g
Terminals	Shrouded screw-clamp 0.05-4mm wire

Dimensions



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