



## INTEGRA 0230

### DIGITAL METERING SYSTEM

#### KEY FEATURES

- DIN-rail enclosure DIN 43880
- Programmable backlit LCD screen
- CT current measurement 5 / 1 A
- Programmable VT, CT ratios
- 3P4W, 3P3W, 1P2W system
- 2 pulsed outputs

TE Connectivity's (TE) Crompton Instruments Integra 0230 Digital Metering System (DMS) provides a MID certified solution for the measurement and display of all electrical parameters including total harmonic distortion (THD) and individual, up to the 31st harmonic.

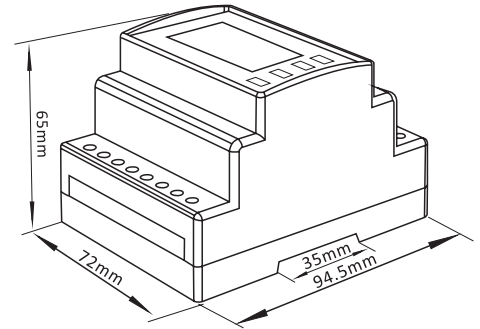
Separate auxiliary input terminals are provided to power the Integra 0230. Auxiliary output terminals are also provided to allow multiple products to be connected together.

Modbus RS485 RTU and two pulsed outputs are fitted as standard.

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



TAPERED ROD	
<b>Input</b>	
Nominal input voltage	100 – 289 V AC L-N (65 – 500 V L-L) 600 V MAX
Max. continuous input overload voltage	120% of nominal
Max. short duration input voltage	2 x nominal voltage for 1 second
Nominal input voltage burden	< 0.2 VA per phase
Nominal input current 1/5A	1 / 5A
Nom. Input current burden	< 0.1 VA
Max. continuous input overload current	120% of nominal
Max. short duration input current	20 x nominal current for 1 second
<b>Auxiliary</b>	
Operating range	85 – 275 V AC 120 – 380 V DC
Supply burden	< 1 VA
<b>Accuracy</b>	
Voltage (V)	+/- 0.5% of range maximum
Current (A)	+/- 0.5% of range maximum
Frequency (Hz)	+/- 0.2% of mid-frequency
Power factor (PF)	+/- 1% of unity (0.01)
Active power (W)	+/- 1.0% of range maximum
Reactive power (VAR)	+/- 1.0% of range maximum
Apparent power (VA)	+/- 1.0% of range maximum
Active energy (kWh)	+/- 1.0% of range maximum to IEC 62053-21
Reactive energy (kVARh)	+/- 1.0% of range maximum to IEC 62053-24
THD	2% to 31st harmonic
<b>Measured Range</b>	
Voltage (V)	5 – 120% of nominal (Min 100 V – self powered)
Current (A)	5 – 120% of nominal
Frequency (Hz)	44 – 66 Hz
Power (W, VAR, VA)	5 – 144% of nominal (bi-directional)
Energy	8 digit, upto 9999999.9 MWh
Power factor	4 quadrant
THD	0 – 40% upto 63rd harmonic
<b>Environment</b>	
Operating temperature	-25° C to +55° C
Storage temperature	-40° C to +70° C
Relative humidity	0 to 95%, non-condensing
Shock	30g in 3 planes
Vibration	10 Hz to 50 Hz, IEC 60068-2-6, 2 g
Dielectric Voltage	4 kV between voltage and current to earth
Altitude	3000 m
Warm-up	1 minute
<b>Outputs</b>	
Pulsed output relay (configurable)	Opto-coupled, potential-free SPST-NO contact
Contact Rating current	2 – 27 mA at 27 V DC
Contact Rating voltage	5 – 27 V DC
Pulse Width	60/100/200 ms
Pulse rate	0.01 / 0.1 / 1 / 10 / 100 kWh/kVARh
Pulsed output relay (non-configurable)	3200IMP/kWh
Communications	Modbus RTU (RS485)
Type	2-wire half duplex
Baud rate	4800, 9600, 19200, 38400
Address	1 to 247
<b>Enclosure</b>	
Enclosure Style	DIN-rail to DIN 43880
Dimensions	72 x 94.5 x 62 mm
Protection rating	Front IP54, Rear IP30
Material	UL 94-VO
Weight	230 g
Cable size	0.05 mm – 4 mm stranded wire
Terminals	Voltage: Shrouded screw-clamp. Current: Shrouded screw clamp



PRODUCT CODES	
Description	Part number
Integra 0230 multifunction DIN-rail LCD Input 500 V L-L, 5 A / 1 A AC 2 pulsed outputs, Modbus RS485 MID Approved, auxiliary powered	INT-0230-S-01
Integra 0220 multifunction DIN-rail LCD Input 500 V L-L, 5 A / 1 A AC 2 pulsed outputs, Modbus RS485, auxiliary powered	INT-0220-S-01

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**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
Russia:	+7 495-790-790-2-200
Spain/Portugal:	+34 912-681-885
UK:	+44 08708-707-500
China:	+86 400-820-6015