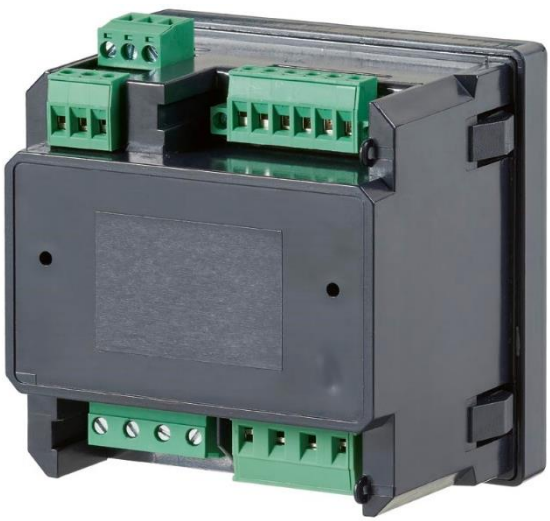
CROMPTON INSTRUMENTS
INTEGRA 1222
DIGITAL MULTIFUNCTION METER

The Crompton Instruments **Integra 1222** digital, multifunction meter from TE Connectivity enables cost effective solution for the measurement and display of all electrical parameters.
Crompton Instruments Integra 1222 offers DIN 96 panel mounted enclosure, backlit LCD display with Modbus™ (RS485) and two pulsed outputs as standard



Features

- DIN 96 enclosure
- Backlit LCD screen
- Voltage IN-OUT connections
- CT current measurement
- Plug and Socket connections
- Programmable VT, CT Ratios
- Modbus™ RTU
- 2 pulsed Outputs

Benefits

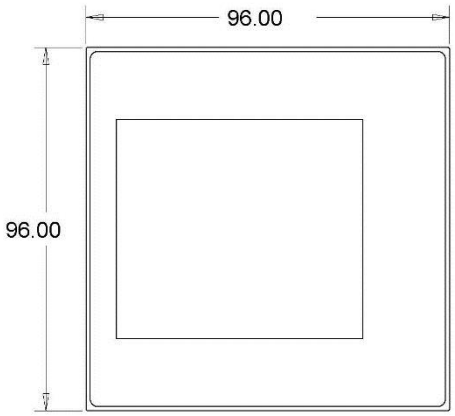
- Cost Effective
- Easy installation with plug and socket connections

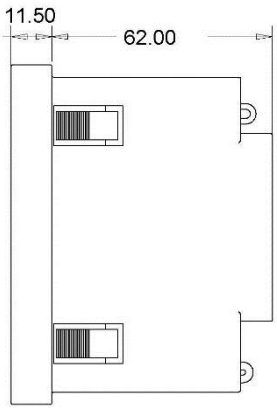
Approvals

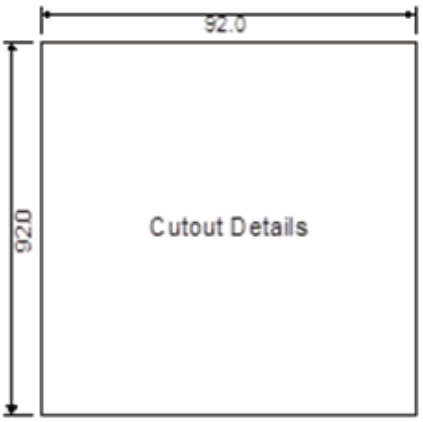
- IEC BS EN 61010-1:2010
- BS EN 61326-1:2013
- IEC 62053-21 Class 1
- IEC 62053-24 Class 1

CE N1349

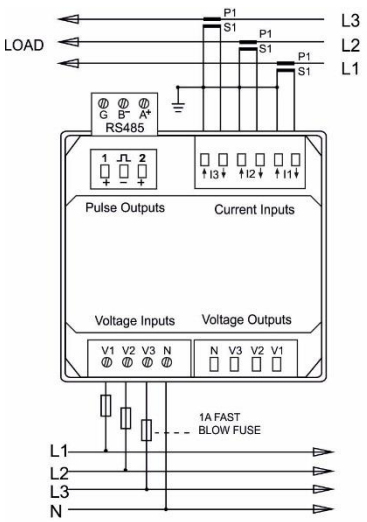
Dimensions



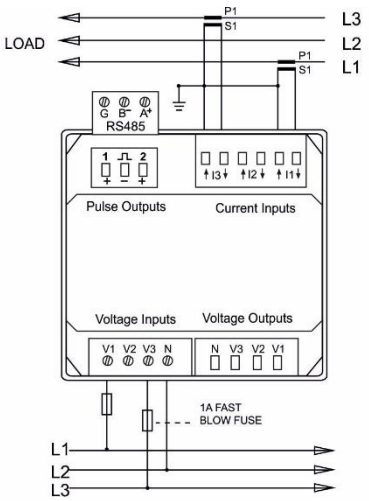




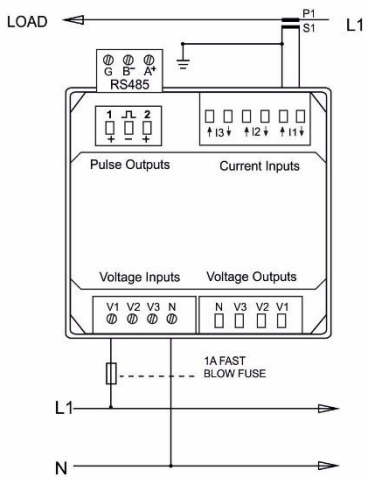
Wiring Diagrams



3P4W



3P3W



1P2W

Product Codes

Description	Part Number
INTEGRA 1222 MULTIFUNCTION PANEL METER LCD. INPUT 480V L-L, 5A / 1A AC 2 PULSED OUTPUTS, MODBUS RTU RS485. Q2C SCREW CONNECTIVITY	INT-1222-S-01

Specifications

Input	
Nominal input voltage	100-276V AC L-N (173–480V L-L) 600V MAX
Max. continuous input overload voltage	125% of nominal
Max. short duration input voltage	2 x nominal voltage for 1 second
Nominal input voltage burden	< 0.2VA per phase
Nominal input current	1A AC or 5A AC
Nom. Input current burden	< 0.1 VA
Max. continuous input overload current	120% of nominal
Max. short duration input current (300 msec)	20 x nominal current for 1 second
Auxiliary	
Operating range	Self Powered (From any of the three phases)
Supply burden	10 VA
Accuracy	
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 63rd harmonic
Measured Range	
Voltage (V)	5 – 120% of nominal (Min 100V – 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
Environment	
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	10Hz to 50Hz, IEC 60068-2-6, 2g
Dielectric Voltage	4kV between voltage and current to earth.
Altitude	3000m
Warm-up	1 minute
Outputs	
Pulsed output relay (configurable)	Opto-coupled, potential-free SPST-NO contact
Contact Rating current	2-27mA at 27V DC
Contact Rating voltage	5-27V 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
Enclosure	
Enclosure Style	DIN 96 panel Mount
Dimensions	96x96x62 mm
Panel cut-out	92x92mm
Panel thickness	1-5 mm
Protection rating	Front IP54, Rear IP30
Material	UL 94-VO
Weight	340 g
Cable Size	0.05mm-4mm stranded wire
Terminals	Voltage: Shrouded screw-clamp. Current: Screw

Parameters

Button	Scr	Parameter
ESC Ph S	1	Watts L1 Volts L1 Current L1 Active Energy L1
	2	Watts L2 Volts L2 Current L2 Active Energy L2
	3	Watts L3 Volts L3 Current L3 Active Energy L3
	4	Watts L1 Volts L1 Current L1 Active Energy L1
	5	Watts L2 Volts L2 Current L2 Active Energy L2
	6	Watts L3 Volts L3 Current L3 Active Energy L3
V/A	1	L-N Volts L1, L2, L3
	2	L-L Volts L1, L2, L3
	3	Current L1, L2, L3, N
	4	V-THD% per line
	5	I-THD% per line
	6	Phase Sequence V&I
MD PF Hz	1	PF and System Freq
	2	PF per phase
	3	Max Current Demand per phase
	4	System Max demand P, Q, S.
P	1	Active Power (P) L1, L2, L3
	2	Reactive Power (Q) L1, L2, L3
	3	Apparent Power (S) L1, L2, L3
	4	System Powers P,Q,S
E	1	Imp Active Energy Exp Active Energy
	2	Imp Reactive Energy Exp Reactive Energy
	3	Total Active Energy Total Reactive Energy

www.crompton-instruments.com

FOR MORE INFORMATION: TE Technical Support Centres

UK	+44 1376 509 533
USA	+1 800 327 6996
Australia	+61 1300 656 090
Singapore	+65 6590 5151
Hong Kong	+852 2790 9609

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