



CROMPTON INSTRUMENTS INTEGRA 1221 DIGITAL METERING SYSTEM

The Crompton Instruments INTEGRA 1221 digital metering system (dms) from TE Connectivity enables cost effective solution for the measurement and display of all electrical parameters including total harmonic distortion (THD) and individual, up to the 63rd harmonic

Display

High definition screen features programmable backlight for high contrast visibility in low light and direct sunlight applications. The light can be programmed to automatically dim after set period of time for energy saving.

New "petal" array icons shows the percentage of full scale power of the measured system and the instantaneous power factor (PF) measurement gives clear PF indication. Total power consumption is displayed on the screen at all time.

Q2C Wiring Solution

INTEGRA 1221 dms and the 3-in-1 current transformers include RJ12 plugs and sockets for easy connectivity and installation and the solution is available with wired looms to reduce assembly time and connection errors. IN-OUT voltage connections reduce wiring and installation time.

Communication

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

Enclosure and System

The DIN 96 panel mounted enclosure includes integral panel mounting clips for quick and easy fitting and to suit user requirements, the range includes single-phase, three-phase three-wire and three-phase four-wire capability, all selectable at the point of installation.

Features

- DIN 96 enclosure
- Programmable backlit LCD screen
- Voltage IN-OUT connections
- CT current measurement 0.1A
- Plug and socket connections
- Programmable VT, CT ratios
- Modbus™ RTU as standard
- 2 pulsed outputs with led indication
- PF bar indicator
- 3P4W, 3P3W, 1P2W system types
- Individual harmonics to 63rd

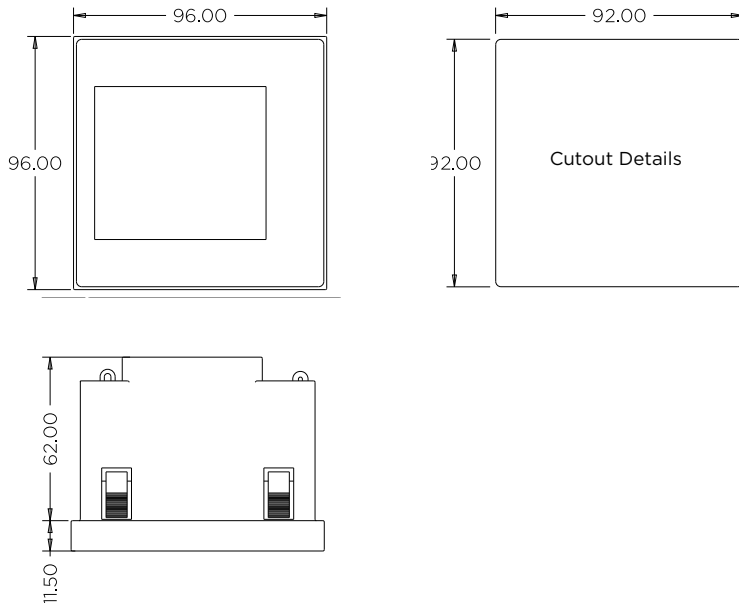
Benefits

- Cost effective
- Easy installation
- RJ12 connection

Approvals

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

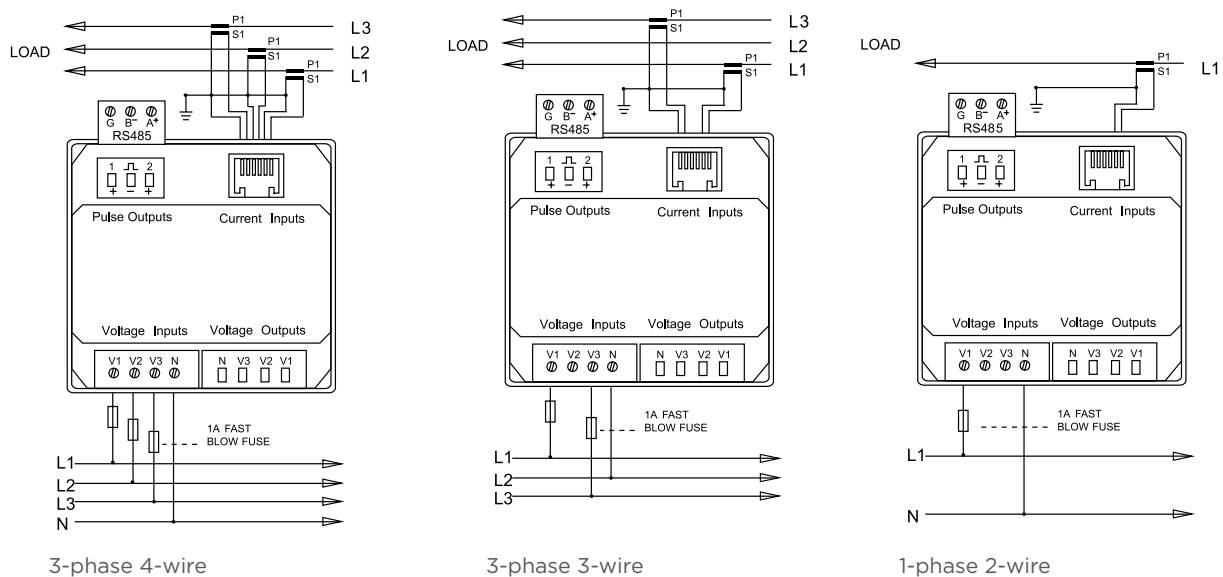
Dimensions



Displayed Parameters

- Voltage per phase L-N, L-L
- Current per phase and Max Demand
- Power Factor – per phase and system
- Total Harmonic Distortion – Voltage and Current per phase
- Neutral current
- Frequency system
- Phase Sequence
- Active Power (P) per phase, total and Max Demand
- Reactive Power (Q) per phase, total and Max Demand
- Apparent Power (S) per phase, total and Max Demand
- Energy – Active and Reactive Importing and Total
- Energy – Active and Reactive Exporting and Total

Wiring Diagrams



Product Codes

Description	Part number
INTEGRA 1221 multifunction panel meter LCD Input 500V L-L, 5A / 1A AC 2 pulsed outputs, Modbus RS485. RJ12 CT connectivity	INT-1221-S-01

Specifications

Input	
Nominal input voltage	57.7 – 276V AC L-N (100-480V 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	100mA
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
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	
Type	Modbus RTU (RS485)
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: RJ12

Parameters

Button	Scr	Parameter
	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
	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
	1	PF and System Freq
	2	PF per phase
	3	MD per phase
	4	System Max demand P, Q, S.
	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
	1	Imp Active Energy Exp Active Energy
	2	Imp Reactive Energy Exp Reactive Energy
	3	Total Active Energy Total Reactive Energy

3-IN-1 CURRENT TRANSFORMERS



The 3-in-1 current transformer range are for use with the INTEGRA 1221 digital metering system which combines three traditional current transformers in one moulding case with a RJ12 connection for simple and easy error free installation.

Product Codes	Primary Current	VA at Class 1	VA at Class 0.5
DL3N1-35-60/0.1	60A	0.25	-
DL3N1-35-125/0.1	125A	0.5	0.25
DL3N1-35-160/0.1	160A	0.35	0.25
DL3N1-35-250/0.1	250A	0.5	0.25
DL3N1-45-250/0.1	250A	0.25	-
DL3N1-45-400/0.1	400A	-	0.25
DL3N1-45-600/0.1	600A	-	0.25
DL3N1-70-400/0.1	400A	-	0.25
DL3N1-70-600/0.1	600A	-	0.25
DL3N1-70-800/0.1	800A	-	0.25

Voltage Meter to Meter Loom

The meter to meter loom connects the voltage for upto 32 meters using high quality LSZH cable fitted with suitable plugs and socket for safe and easy voltage connections.



Part Number	Length
Q2C-VMM-0600-01	600mm
Q2C-VMM-0900-01	900mm
Q2C-VMM-1200-01	1200mm
Q2C-VMM-1500-01	1500mm
Q2C-VMM-2000-01	2000mm
Other lengths available	

Voltage Meter to Open Loom

The meter to open loom connects the voltage supply from the fused connections to the meter using high quality LSZH cable fitted with suitable plugs and socket for safe and easy voltage connections.



Part Number	Length
Q2C-VFO-0600-01	600mm
Q2C-VFO-1000-01	900mm
Q2C-VFO-1200-01	1200mm
Q2C-VFO-1500-01	1500mm
Other lengths available	

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For email or phone, go to:

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FOR MORE INFORMATION: TE Technical Support Centres

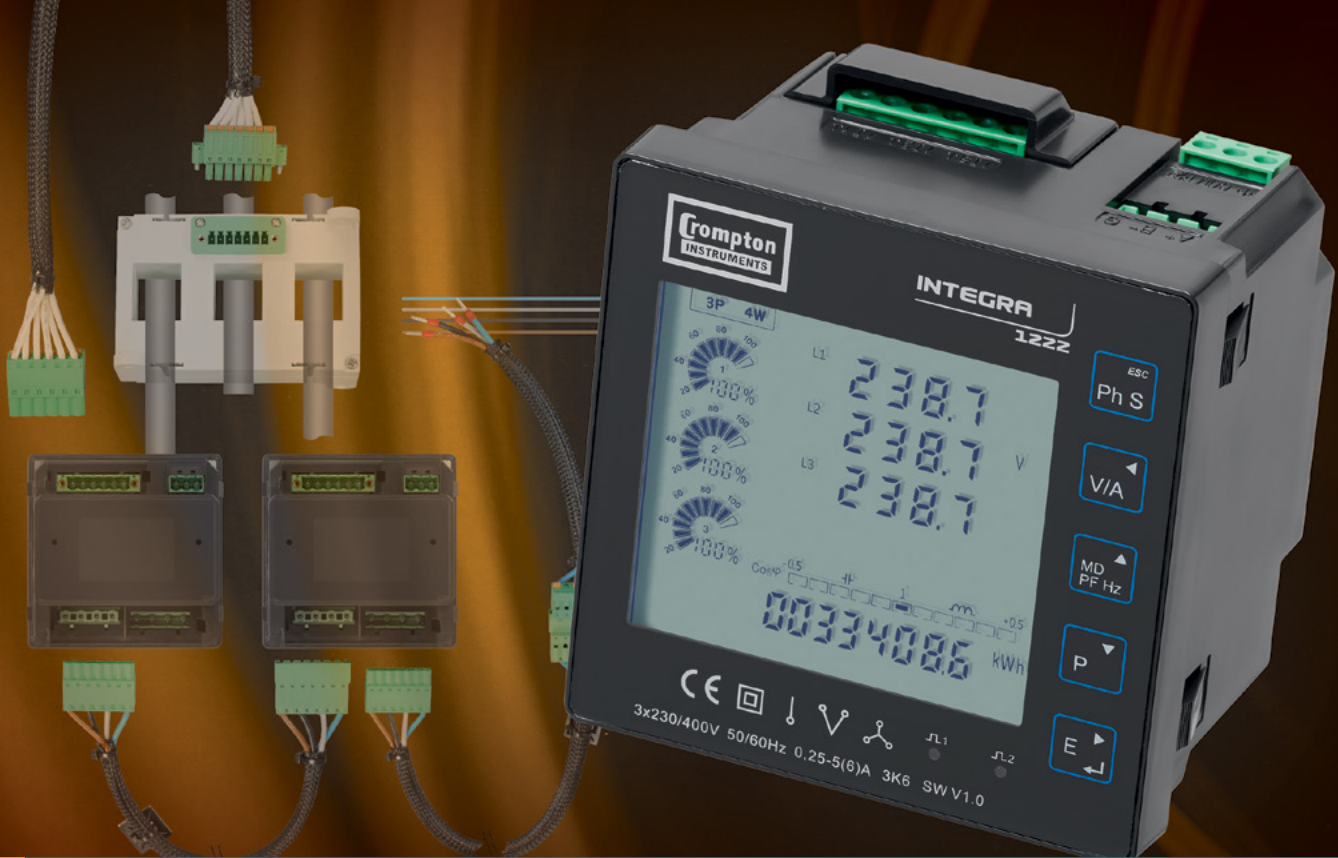
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Australia +61 1300 656 090
Singapore +65 6590 5151
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CROMPTON INSTRUMENTS INTEGRA 1222 DIGITAL METERING SYSTEM

The Crompton Instruments INTEGRA 1222 digital metering system (dms) from TE Connectivity enables cost effective solution for the measurement and display of all electrical parameters including total harmonic distortion (THD) and individual, up to the 63rd harmonic.

Display

High definition screen features programmable backlight for high contrast visibility in low light and direct sunlight applications. The light can be programmed to automatically dim after set period of time for energy saving.

New "petal" array icons shows the percentage of full scale power of the measured system and the instantaneous PF measurement gives clear PF indication. Total power consumption is displayed on the screen at all time.

Q2C Wiring Solution

INTEGRA 1222 dms and the 3-in-1 current transformers feature Q2C wiring solution for simple yet fast installation utilising plug and socket connections and pre-cut wiring looms, which allow to reduce assembly time and connection errors. IN-OUT voltage connections reduce wiring and installation time.

Communication

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

Enclosure and System

The DIN 96 panel mounted enclosure includes integral panel mounting clips for quick and easy fitting and to suit user requirements, the range includes single-phase, three-phase three-wire and three-phase four-wire capability, all selectable at the point of installation.

Features

- DIN 96 enclosure
- Programmable backlit LCD screen
- Voltage IN-OUT connections
- CT current measurement 5A/1A
- Plug and socket connections
- Programmable VT, CT ratios
- Modbus™ RTU
- 2 pulsed outputs with led indication
- PF bar indicator
- 3P4W, 3P3W, 1P2W system types
- Individual harmonics to 63rd

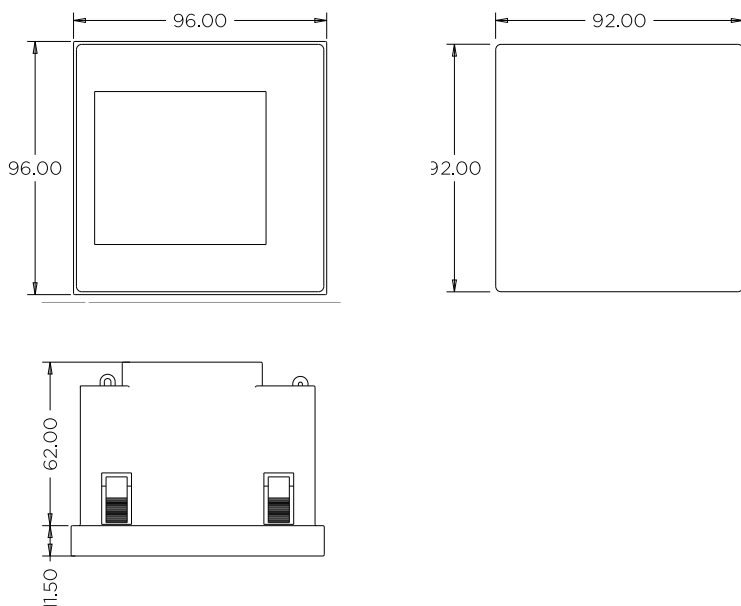
Benefits

- Cost effective
- Easy installation
- Q2C wiring solution

Approvals

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

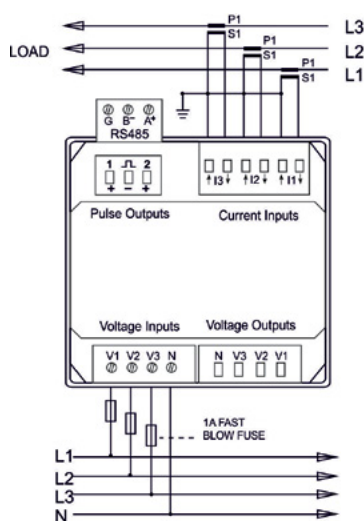
Dimensions



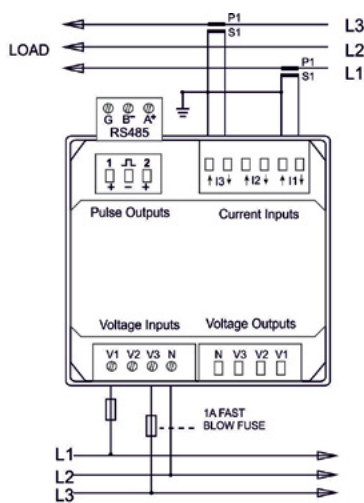
Displayed Parameters

- Voltage per phase L-N, L-L
- Current per phase and Max Demand
- Power Factor – per phase and system
- Total Harmonic Distortion – Voltage and Current per phase
- Neutral current
- Frequency system
- Phase Sequence
- Active Power (P) per phase, total and Max Demand
- Reactive Power (Q) per phase, total and Max Demand
- Apparent Power (S) per phase, total and Max Demand
- Energy – Active and Reactive Importing and Total
- Energy – Active and Reactive Exporting and Total

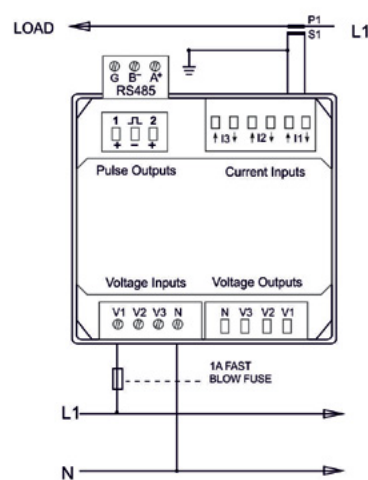
Wiring Diagrams



3-phase 4-wire



3-phase 3-wire



1-phase 2-wire






Product Codes

Description	Part number
INTEGRA 1222 multifunction panel meter LCD Input 500V L-L, 5A / 1A AC 2 pulsed outputs, Modbus RS485. Q2C plug and socket connectivity	INT-1222-S-01

Specifications

Input	
Nominal input voltage	57.7 – 276V AC L-N (100-480V 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	
Type	Modbus RTU (RS485)
Baud rate	2-wire half duplex 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
Display characters	6.2mm

Parameters

Button	Scr	Parameter
	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
	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
	1	PF and System Freq
	2	PF per phase
	3	Max Current Demand per phase
	4	System Max demand P, Q, S.
	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
	1	Imp Active Energy Exp Active Energy
	2	Imp Reactive Energy Exp Reactive Energy
	3	Total Active Energy Total Reactive Energy

Q2C WIRING SOLUTION

Ensures error free installation and reduces wiring time by 80%.

With the Q2C wiring solution, you can quickly and easily connect the INTEGRA 1222 Digital Metering System and 3-in-1 current transformers.

Key Benefits

- A complete wiring solution with integral connectors and earthing
- Screwless terminal connections, vibration proof and maintenance free
- Reduced installation time
- Eliminates potential cost of errors in electrical connections or programming
- Tidy solution for cable management



Voltage Meter to Meter Loom

The meter to meter loom connects the voltage for upto 32 meters using high quality LSZH cable fitted with suitable plugs and socket for safe and easy voltage connections.



Part Number	Length
Q2C-VMM-0600-01	600mm
Q2C-VMM-0900-01	900mm
Q2C-VMM-1200-01	1200mm
Q2C-VMM-1500-01	1500mm
Q2C-VMM-2000-01	2000mm

Other lengths available

Voltage Meter to Open Loom

The meter to open loom connects the voltage supply from the fused connections to the meter using high quality LSZH cable fitted with suitable plugs and socket for safe and easy voltage connections.



Part Number	Length
Q2C-VFO-0600-01	600mm
Q2C-VFO-1000-01	900mm
Q2C-VFO-1200-01	1200mm
Q2C-VFO-1500-01	1500mm

Other lengths available

Current to Meter Loom

The current to meter loom connects the current from the current transformer to the current input on the meter using high quality LSZH cable fitted with suitable plugs and socket for safe and easy voltage connections.



Part Number	Length
Q2C-CTM-0600-01	600mm
Q2C-CTM-0900-01	900mm
Q2C-CTM-1200-01	1200mm
Q2C-CTM-1500-01	1500mm
Q2C-CTM-2000-01	2000mm
Q2C-CTM-2500-01	2500mm

Other lengths available

Current to Open Loom

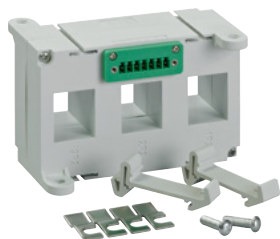
The current to open loom connects the any current transformer to the current inputs on the meters using high quality LSZH cable fitted with suitable plugs and socket for safe and easy voltage connections.



Part Number	Length
Q2C-CMO-0600-01	600mm
Q2C-CMO-0900-01	900mm
Q2C-CMO-1200-01	1200mm
Q2C-CMO-1500-01	1500mm
Q2C-CMO-2000-01	2000mm
Q2C-CMO-2500-01	2500mm

Other lengths available

Q2C 3-IN-1 CURRENT TRANSFORMERS

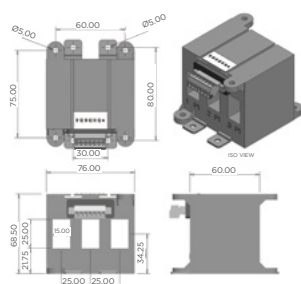


A range of 3-in-1 current transformers to use with or without the Q2C wiring solution. The 3-in-1 current transformers combine three traditional current transformers in one moulded case with a connector for simple and easy installation.

QC3N1-25

76mm wide x 60mm deep x 68mm high

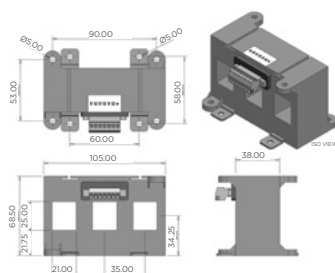
Part number	Ratio	Burden VA against class index			Aperture (mm)	£	Delivery
		Class 0.5	Class 1	Class 3			
QC3N1-25-60/5	60/5	-	1	2	3 @ 15x25	25.00	5
QC3N1-25-100/5	100/5	-	1.5	2.5	3 @ 15x25	25.00	5
QC3N1-25-125/5	125/5	-	1.5	2.5	3 @ 15x25	25.00	5
QC3N1-25-160/5	160/5	1.5	1.5	2.5	3 @ 15x25	25.00	5



QC3N1-35

105mm wide x 38mm deep x 68.5mm high

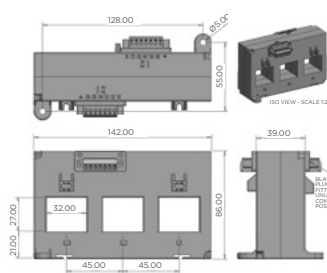
Part number	Ratio	Burden VA against class index			Aperture (mm)	£	Delivery
		Class 0.5	Class 1	Class 3			
QC3N1-35-100/5	100/5	-	1.5	2	3 @ 21x25	22.00	5
QC3N1-35-125/5	125/5	-	1.5	2.5	3 @ 21x25	22.00	5
QC3N1-35-160/5	160/5	1.5	1.5	2.5	3 @ 21x25	22.00	5
QC3N1-35-250/5	250/5	1.5	1.5	2.5	3 @ 21x25	22.00	5



QC3N1-45

142mm wide x 39mm deep x 86mm high

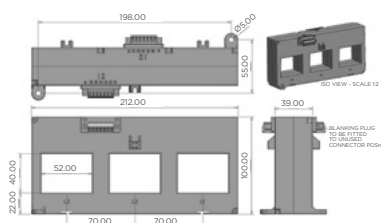
Part number	Ratio	Burden VA against class index			Aperture (mm)	£	Delivery
		Class 0.5	Class 1	Class 3			
QC3N1-45-250/5	250/5	-	2.5VA	-	3 @ 32x27	38.00	5
QC3N1-45-400/5	400/5	-	2.5VA	-	3 @ 32x27	38.00	5
QC3N1-45-630/5	630/5	2.5VA	5VA	-	3 @ 32x27	38.00	5



QC3N1-70

212mm wide x 39mm deep x 100mm high

Part number	Ratio	Burden VA against class index			Aperture (mm)	£	Delivery
		Class 0.5	Class 1	Class 3			
QC3N1-70-400/5	400/5	-	2.5VA	-	3 @ 52x40	45.00	5
QC3N1-70-630/5	630/5	2.5VA	2.5VA	-	3 @ 52x40	45.00	5
QC3N1-70-800/5	800/5	2.5VA	5VA	-	3 @ 52x40	45.00	5



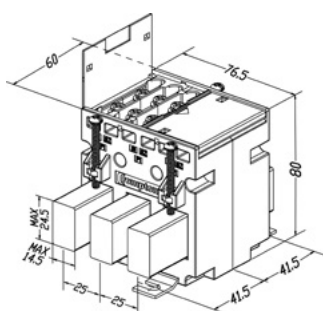
3-IN-1 CURRENT TRANSFORMERS



A range of 3-in-1 current transformers combine three traditional current transformers in one moulded case. 3-in-1 current transformers can be directly installed next to a three-phase moulded case circuit breaker, thus saving installation time where fitting three standard individual current transformers would be required. The M3N1 range of current transformers offers primary currents between 60-630A with 5A secondaries with up to Class 0.5 accuracy performance.

M3N1-25

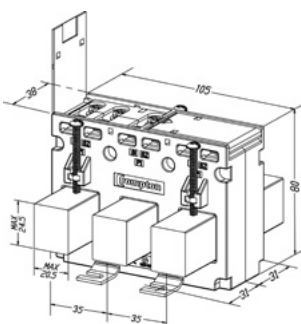
Case size: 75mm wide x 60mm deep x 80mm high



Part number	Ratio	Burden VA against class index			Aperture (mm)	£	Delivery
		Class 0.5	Class 1	Class 3			
M3N1-25-60/5	60/5	-	1	2	3 @ 15x25	27.80	5
M3N1-25-100/5	100/5	-	1.5	2.5	3 @ 15x25	27.80	5
M3N1-25-125/5	125/5	-	1.5	2.5	3 @ 15x25	27.80	5
M3N1-25-160/5	160/5	1.5	1.5	2.5	3 @ 15x25	27.80	5

M3N1-35

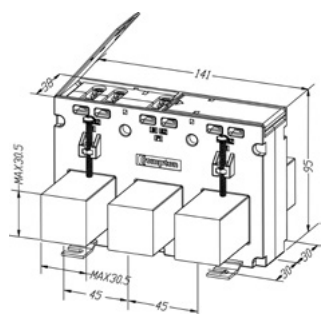
Case size: 105mm wide x 38mm deep x 80mm high



Part number	Ratio	Burden VA against class index			Aperture (mm)	£	Delivery
		Class 0.5	Class 1	Class 3			
M3N1-35-100/5	100/5	-	1	2	3 @ 21x25	24.70	5
M3N1-35-125/5	125/5	-	1.5	2.5	3 @ 21x25	24.70	5
M3N1-35-150/5	150/5	-	1.5	2.5	3 @ 21x25	24.70	5
M3N1-35-160/5	160/5	1.5	1.5	2.5	3 @ 21x25	24.70	5
M3N1-35-200/5	200/5	1.5	1.5	2.5	3 @ 21x25	24.70	5
M3N1-35-250/5	250/5	1.5	1.5	2.5	3 @ 21x25	24.70	5

M3N1-45

Case size: 141mm wide x 38mm deep x 95mm high



Part number	Ratio	Burden VA against class index			Aperture (mm)	£	Delivery
		Class 0.5	Class 1	Class 3			
M3N1-45-250/5	250/5	1.5	1.5	2.5	3 @ 31x31	27.80	5
M3N1-45-300/5	300/5	2.5	2.5	3.75	3 @ 31x31	27.80	5
M3N1-45-400/5	400/5	2.5	2.5	3.75	3 @ 31x31	27.80	5
M3N1-45-500/5	500/5	2.5	2.5	3.75	3 @ 31x31	27.80	5
M3N1-45-600/5	600/5	2.5	2.5	3.75	3 @ 31x31	27.80	5
M3N1-45-630/5	630/5	2.5	2.5	3.75	3 @ 31x31	27.80	5

CURRENT TRANSFORMERS RANGE



Ebony Current Transformers

The range of Crompton Instruments Ebony current transformers offers wide system current ratings, apertures, busbar and case sizes to suit every application. Manufactured to meet EN60044 the range benefits include ratio rating from 1/5 to 6000/5, accuracy up to Class 0.5, integral terminal cover for safety and multiple mounting options.

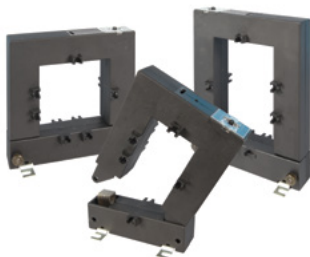
Supplied with metal feet. DIN rail clips and busbar mounting as standard.

For use with the CTO range of wiring looms.



MR series Current Transformers

MR transformers are used to accurately measure high alternating primary currents, converting the primary current into a proportional secondary current as required for measurement and instrumentation. They are available in 5 amp or 1 amp secondary versions.



Split Core Current Transformers

A range of split core current transformers that offers a cost effective and efficient method by which the current can be measured without the need to break the conductor, thereby reducing installation and commissioning time.



Miniature Split Core Current Transformers

A range of miniature split core current transformers that offers a cost effective and efficient method by which the current can be measured without the need to break the conductor, each current transformer is supplied with colour coded leads of up to 3 meters for connection to the monitoring device. The MSC range of current transformers offers primary currents between 60-500A with 1 or 5A secondaries with class 1 accuracy performance. (Class 3 for 60-80A range).

For full range and part numbers visit
Crompton-instruments.com

About TE Connectivity

TE Connectivity Ltd. (NYSE: TEL) TE Connectivity is a \$12 billion global technology leader. Our commitment to innovation enables advancements in transportation, industrial applications, medical technology, energy, data communications, and the home. TE's unmatched breadth of connectivity and sensor solutions, proven in the harshest of environments, helps build a safer, greener, smarter and more connected world. With 75,000 people – including more than 7,000 engineers – working alongside customers in nearly 150 countries, we help ensure that EVERY CONNECTION COUNTS.

WHEREVER ELECTRICITY FLOWS, YOU'LL FIND TE ENERGY



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