



# CROMPTON INSTRUMENTS Q2C WIRING SOLUTION

FOR QUICK AND ERROR-FREE INSTALLATION



# Q2C WIRING SOLUTION

## THE Q2C WIRING SOLUTION ENSURES ERROR FREE INSTALLATION AND REDUCES WIRING TIME BY 80%

With the Q2C wiring solution, you can quickly and easily connect Integra Ci5 Digital Metering System (DMS) and 3-in-1 current transformers

### The Q2C solution includes:

- The Integra Ci5 DMS
- 3-in-1 CTs
- Wiring looms in various lengths

The Q2C wiring solution provides simple yet fast installation utilising plug-in connections and pre-cut wiring looms, which allow the installer to easily connect the digital meter and the current transformer to the incoming or outgoing supply.

### Standards

- IEC 61326
- IEC 62053-21
- IEC 61010-1
- IEC 60044-1



### Key benefits

- A complete wiring solution with integral connectors and earthing
- Screwless terminal connections, vibration proof and maintenance free
- Reduces installation time by at least 80% over standard methods
- Eliminates potential cost of errors in electrical connections or programming
- UK manufactured product
- Tidy solution to cable management



## INTEGRA CI5 DIGITAL METERING SYSTEM

- Voltage In and Out connection
- Pulsed and RS485 Modbus RTU fitted as standard
- Programmable CT ratio
- True rms/THD measurement
- Self powered, no need for additional auxiliary supply for screen display operation
- User programmable, single-phase or three-phase four-wire system configuration

Description	Part Number
Integra Ci5 meter (pulsed & RS485 Modbus RTU)	CI5-01
Integra Ci5 terminal/connector pack (optional for user to produce own looms)	CI5-TERM-01



## WIRING LOOMS WITH INTEGRAL CLIPS

- High pull resistance connectors for durable use
- Voltage looms are multipurpose - can be used for first incoming voltage supply and for additional meter looping

Loom	Description	Length (m)	Part Number
1	Fuses to voltage loom	0.5	QCFV-01
1	Fuses to voltage loom	1	QCFV-02
2	Voltage to voltage loom	0.6	QCVV-01
2	Voltage to voltage loom	0.9	QCVV-02
2	Voltage to voltage loom	1.2	QCVV-03
3	CT to meter loom	1.5	QCCTM-01
3	CT to meter loom	1.25	QCCTM-02
3	CT to meter loom	2.5	QCCTM-03
3	CT to meter loom	0.5	QCCTM-04
3	Open ended loom/harness CT fixed/open at meter connection	1.5	QCCTO-01
3	Open ended loom/harness CT fixed/open at meter connection	0.5	QCCTO-02
3	Open ended loom/harness CT fixed/open at meter connection	1.5	QCMCTO-01
3	Open ended loom/harness CT fixed/open at meter connection	0.5	QCMCTO-02

## Q2C 3-IN-1 CURRENT TRANSFORMERS

A range of 3-in-1 current transformers for 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 pluggable locking connector for simple and easy installation.

Part number	Ratio	Burden VA against class index			Aperture (mm)
		Class 0.5	Class 1	Class 3	
QC3N1-25-60/5	60/5	-	1	2	3 @ 15x25mm
QC3N1-25-100/5	100/5	-	1.5	2.5	3 @ 15x25mm
QC3N1-25-160/5	160/5	1.5	1.5	2.5	3 @ 15x25mm
QC3N1-35-100/5	100/5	-	1.5	2	3 @ 21x25mm
QC3N1-35-125/5	125/5	-	1.5	2.5	3 @ 21x25mm
QC3N1-35-160/5	160/5	1.5	1.5	2.5	3 @ 21x25mm
QC3N1-35-250/5	250/5	1.5	1.5	2.5	3 @ 21x25mm
QC3N1-45-250/5	250/5	-	2.5VA	-	3 @ 32x27mm
QC3N1-45-400/5	400/5	-	2.5VA	-	3 @ 32x27mm
QC3N1-45-600/5	600/5	2.5VA	5VA	-	3 @ 32x27mm
QC3N1-70-400/5	400/5	-	2.5VA	-	3 @ 52x40mm
QC3N1-70-600/5	600/5	2.5VA	5VA	-	3 @ 52x40mm
QC3N1-70-800/5	800/5	2.5VA	5VA	-	3 @ 52x40mm



## INTEGRA CI5 DMS PARAMETERS

Button	Screen	Parameters	
V/Hz	1	Volts L1 - N	
		Volts L2 - N	
		Volts L3 - N	
	2	Volts L1 - L2	
		Volts L2 - L3	
		Volts L3 - L1	
	3	Frequency	
	4	Volts L1 - N THD%	
		Volts L2 - N THD%	
		Volts L3 - N THD%	
	5	Volts L1 - L2 THD%	
		Volts L2 - L3 THD%	
		Volts L3 - L1 THD%	
	A	1	Current L1
			Current L2
Current L3			
2		Neutral Current	
3		L1 Current Max Demand	
		L2 Current Max Demand	
		L3 Current Max Demand	
4		Neutral Current Max Demand	
		Current L1 THD%	
		Current L2 THD%	
5		Current L3 THD%	
		1	kW
			kVAr
kVA			
kW Max Demand			
2	Power Factor		
	1	kWh	
2		kVArh	



### Ordering Process Example

When ordering the Q2C wiring solution select Integra Ci5 dms, three looms in required lengths and identify the incomer or outgoing rating for selection of the current transformer (Q2C-\*\*-\*\*\*/5).

### Example

#### Step 1 - Select the meter

Integra Ci5-01 dms (pulsed & RS485 Modbus RTU)\*

#### Step 2 - Select Looms

1. QCFV-01, fuses to voltage - 0.5m
2. QCVV-01, voltage to voltage - 0.6m
3. QCCTM-01, CT to meter - 1.5m

#### Step 3 - Select Current Transformers

Q2C-35-100/5, current transformer busbar centres 35mm

\*If not using the pre-assembled looms, select the Ci5-01 plus the Ci5-TERM-01 pack to manufacture custom looms.

For email or phone, go to:

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