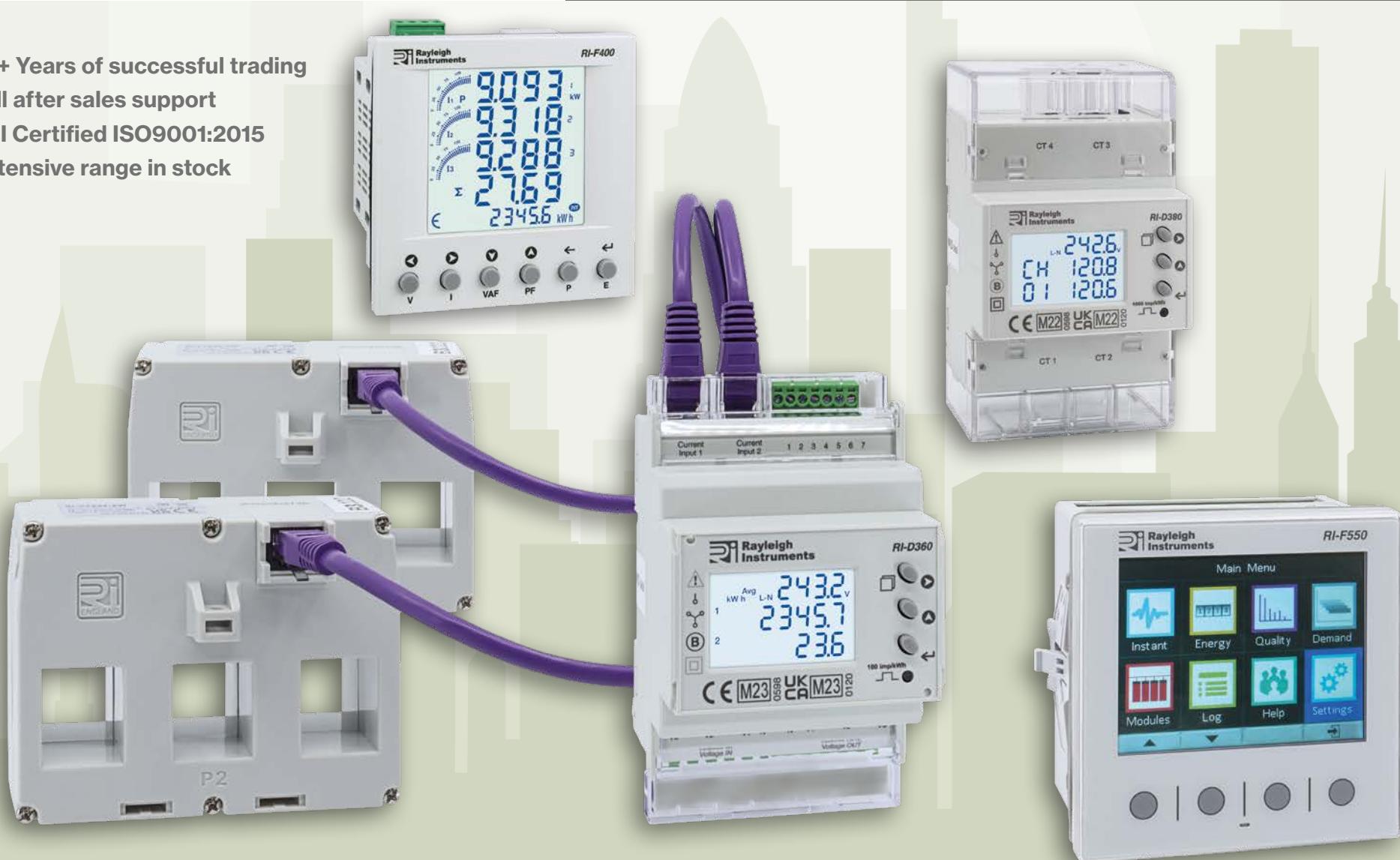


Energy Meters and Current Transformers Overview

- 55+ Years of successful trading
- Full after sales support
- BSI Certified ISO9001:2015
- Extensive range in stock



Energy Meters	RI-F100	RI-F200	RI-F220	RI-F500	RI-F550	RI-D140	RI-D240	
								
Type	Three Phase Multifunction MID Certified	Single and Three Phase Multifunction	Single and Three Phase Multifunction	Multifunction Network Analyser - Single and Three Phase	Multifunction Network Analyser - Single and Three Phase	Single and Three Phase Multifunction MID Certified	Single and Three Phase Multifunction	
Features	<ul style="list-style-type: none"> DIN 96 panel mounted -/5A current transformer input Three phase network compatible Programmable voltage and Current Transformer ratio True RMS measurement MID B+D Certified High definition white backlit LCD display Compact size - only 50mm panel depth Simple programming and operation Auto and manual page scrolling Harmonics up to the 31st 	<ul style="list-style-type: none"> DIN 96 panel mounted -/1A or -/5A current transformer input Single phase or three phase network compatible Programmable voltage and Current Transformer ratio True RMS measurement High definition white backlit LCD display Compact size - only 50mm panel depth Simple programming and operation Auto and manual page scrolling Harmonics up to the 31st 	<ul style="list-style-type: none"> DIN 72 panel mounted -/1A or -/5A current transformer input Single phase or three phase network compatible Programmable voltage and Current Transformer ratio True RMS measurement High definition white backlit LCD display Simple programming and operation Auto and manual page scrolling Harmonics up to the 31st 	<ul style="list-style-type: none"> DIN 96 panel mounted Tactile buttons and mono graphical display Real time clock Multi-tariff measurement 2 x Digital inputs and 2 x relay outputs Active energy EN62053-22 Class 0.2S Event and alarm recording Up to four additional plug-in modules Waveform capture, waveform display, phasor diagrams etc. IP65 front Harmonics up to the 63rd 	<ul style="list-style-type: none"> DIN 96 panel mounted Touch buttons and colour graphical display Real time clock Multi-tariff measurement 2 x Digital inputs and 2 x relay outputs Active energy EN62053-22 Class 0.2S Event and alarm recording Up to four additional plug-in modules Waveform capture, waveform display, phasor diagrams etc. IP65 front Harmonics up to the 63rd 	<ul style="list-style-type: none"> Four module DIN rail mounted Energy pulse LED -/1A or -/5A CT input (MID certification only on 5A current transformers) Single phase or three phase network compatible Programmable voltage and Current Transformer ratio True RMS measurement MID B+D Certified High definition white backlit LCD display Simple programming and operation Auto and manual page scrolling 	<ul style="list-style-type: none"> Four module DIN rail mounted Energy pulse LED -/1A or -/5A current transformer input Single phase or three phase network compatible Programmable voltage and Current Transformer ratio True RMS measurement High definition white backlit LCD display Simple programming and operation Auto and manual page scrolling 	
Parameters	V (L-L, L-N) I, PF, THD, Hz, Neutral current, Hours Run, Power (Active, Reactive and Apparent, Min./Max. demand), Energy (Active, reactive and apparent), Import and export energy				V(Phase/Line/System) I(Line/System), PF(Line/System /Displacement), THD, Hz, K, Hours Run, Power (Active, Reactive, Apparent, Min./Max. demand), Unbalance, Energy (Active, reactive and apparent), Import and export energy, Waveform, Flicker and Phase Diagrams			
Mounting	Panel - DIN 96	Panel - DIN 96	Panel - DIN 72	Panel - DIN 96	Panel - DIN 96	DIN Rail (35mm)	DIN Rail (35mm)	
Connection	Current Transformer	Current Transformer	Current Transformer	Current Transformer	Current Transformer	Current Transformer	Current Transformer	
Communication Options	Pulse output only Modbus and Pulse output (M-Bus and Pulse soon)	Pulse output only Modbus and Pulse output (M-Bus and Pulse available)	Pulse output only Modbus and Pulse output (M-Bus and Pulse available)	Built-in Modbus & Pulse Extensible with modules	Built-in Modbus & Pulse Extensible with modules	Modbus output (M-Bus available soon)	Modbus output (M-Bus available soon)	
MID Certified	✓	-	-	-	-	✓	-	
Dims. (mm) H x W x D	99 x 99 x 50	99 x 99 x 50	72 x 72 x 97.5	96 x 76 x 60.5	96 x 76 x 60.5	90 x 70 x 68	90 x 70 x 68	

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Energy Meters	RI-D175	RI-D175CT	RI-D35	RI-70-100	RI-D150	RI-D250
						
Type	Single phase kWh MID Certified	Single Phase kWh Energy Meter	Single Phase Multifunction MID Certified	Three Phase kWh MID Certified	Three Phase Multifunction DIN Rail Energy Meter MID Certified	Three Phase Multifunction DIN Rail Energy Meter
Features	<ul style="list-style-type: none"> Single module width DIN rail mounted 45A direct connection Available with LCD or mechanical display Import Energy measurement MID B+D Certified LED pulse indication Dual Tariff 	<ul style="list-style-type: none"> -/5A current transformer input Single module width DIN rail mounted Import active energy measurement Modbus + Pulse or Mbus + Pulse versions LED pulse indication 	<ul style="list-style-type: none"> Two module width DIN rail mounted 100A direct connected High definition LCD display with white backlight Import and export energy measurement MID B+D Certified Dual LED pulse indication Simple programming and operation Auto or manual page scrolling 	<ul style="list-style-type: none"> Four module width DIN rail mounted 100A direct connected High definition LCD display Import active energy measurement MID B+D Certified LED pulse indication 	<ul style="list-style-type: none"> 100A direct connected High definition backlit LCD display Four module width DIN rail mounted Import and export active and reactive energy measurement - per phase and totals LED pulse indication Reversible Input direction (fed from top or bottom) Generator tariff mode Single phase and three phase network compatible 	<ul style="list-style-type: none"> 100A direct connected High definition backlit LCD display Four module width DIN rail mounted Import and export active and reactive energy measurement - per phase and totals LED pulse indication Reversible Input direction (fed from top or bottom) Generator tariff mode Single phase and three phase network compatible
Parameters	kWh (Via Modbus - V, I, PF, Hz)	Import Active Energy (kWh) Voltage (V) Current (A) Active power (W) Power factor (Unity) Frequency (Hz)	V (L-N), I, PF, Active Power, Reactive Power, Apparent Power, Import Active Energy (kWh)	kWh	Import/Export Active Energy (kWh) per phase + total Import/Export Reactive energy (kVAh) per phase + total Apparent energy (kVA) per phase + total, Voltage (V), Current (A), Active power (kW) per phase + total Reactive power (kVar) per phase + total Apparent power (kVA) - per phase and total Power factor (PF), Frequency (Hz), Generator tariff (kWh) Active/Reactive/Apparent Power Max. Demand	
Mounting	DIN Rail (35mm)	DIN Rail (35mm)	DIN Rail (35mm)	DIN Rail (35mm)	DIN Rail (35mm)	DIN Rail (35mm)
Connection	Direct	Current Transformer	Direct	Direct	Direct	Direct
Communication Options	Pulse output only Modbus and Pulse outputs M-Bus and Pulse outputs	Modbus and Pulse outputs M-Bus and Pulse outputs	Modbus and 2 x Pulse outputs M-Bus and 2 x Pulse outputs	Pulse output	Modbus and 2 x Pulse outputs	Modbus and 2 x Pulse outputs
MID Certified	✓	-	✓	✓	✓	-
Dims. (mm) H x W x D	95 x 18 x 72	95 x 18 x 72	90 x 35 x 65	110 x 70 x 64.5	90 x 70 x 68.45	90 x 70 x 68.45

RI-D480

Quad Load, Single and Three Phase Multifunction
• Four module DIN rail mounted
• 4 x separate 3 Phase or 12 x Single Phase inputs from easywire® CTs (-/1A or -/5A CTs with converter)
• Energy pulse LED
• Single phase or three phase network compatible
• CT ratios programmable by load (Load 1, 2, 3, 4)
• Programmable voltage transformer ratio
• True RMS measurement
• Backlit LCD display
• Easy to program & operate
• Voltage OUT connector for daisy chaining up to 32 meters from one supply
V (L-L, L-N) I (Load 1/2/3/4 or 12x Single Phase) PF, Hz, Power (Active, Reactive, Apparent, Min./Max. demand), Energy (Active, reactive and apparent)
DIN Rail (35mm) Current Transformer
Modbus output (M-Bus available)
-
90 x 70 x 68

	RI-CT230-EW	RI-CT240-EW	RI-CT242-EW	RI-CT249-EW	RI-CT248-EW	RI-CT250-EW
easywire® Three Phase Current Transformers						
Primary Current	63A	60...160A	60...250A	60...160A	250...630A	630...1600A
Secondary Current	330mV	330mV	330mV	330mV	330mV	330mV
Centres	17.5mm	25mm	35mm	29mm	45mm	70mm
Cable Diameter	Ø 8mm	Ø 15mm	Ø 21mm	Ø 16mm	Ø 31mm	Ø 50mm
Aperture	Ø 8mm	15.5 x 30mm	21 x 25mm	16 x 20mm	31 x 31mm	54 x 50mm
DIN Rail Mount	Supplied	Supplied	Supplied	Supplied	Supplied	Supplied
Foot Mount	Push in	Push in	Push in	Push in	Push in	Push in
Busbar Mount	-	✓	✓	✓	✓	✓
Sealable RJ45 Connection	✓	✓	✓	✓	✓	✓
Dims. (mm) H x W x D	47 x 61 x 53	80 x 76 x 76	80 x 105 x 54	68 x 90 x 76	90 x 140 x 54	124 x 215 x 54

	RI-CT240	RI-CT242	RI-CT248	RI-CT250
Three Phase Current Transformers				
Primary Current	60...200A	60...250A	250...630A	630...1600A
Secondary Current	5A	5A	5A	5A
Centres	25mm	35mm	45mm	70mm
Cable Diameter	Ø 15mm	Ø 21mm	Ø 31mm	Ø 50mm
Aperture	15.5 x 30mm	21 x 25mm	31 x 31mm	54 x 50mm
DIN Rail Mount	Supplied	Supplied	Supplied	Supplied
Foot Mount	Push in	Push in	Push in	Push in
Busbar Mount	✓	✓	✓	✓
Sealable Terminal Cover	✓	✓	✓	✓
Dims. (mm) H x W x D	80 x 76 x 76	80 x 105 x 54	90 x 140 x 54	124 x 214 x 54

Also available from Rayleigh Instruments:

- Class X CTs
- High Accuracy CTs
- Protection Class CTs
 - Ring Type CTs
- Core Balanced CTs
- Special Order CTs
- **easywire® CTs**

	RI-CT050	RI-CT050-EW	RI-CT060	RI-CT060-EW	RI-CT070	RI-CT080	RI-CT090	RI-CT100
Single Phase Current Transformers								
Primary Current	40...300A	40...100A	100...600A	60...100A	100...800A	250...1250A	400...1600A	400...2000A
Secondary Current	5A or 1A	easywire® 330mV	5A or 1A	easywire® 330mV	5A or 1A	5A or 1A	5A or 1A	5A or 1A
Cable Diameter	Ø 21mm	Ø 21mm	Ø 24mm	Ø 24mm	Ø 28mm	Ø 40mm	Ø 45mm	-
Busbar Aperture	-	-	20 x 20mm or 30 x 10mm	20 x 20mm or 30 x 10mm	40 x 10mm or 30 x 12mm	50 x 10mm or 40 x 30mm	60 x 15mm or 50 x 30mm	60 x 30mm
DIN Rail Mount	Supplied	Supplied	Supplied	Supplied	Supplied	Supplied	-	-
Foot Mount	Push in	Push in	Push in	Push in	Push in	Push in	Push in	Push in
Busbar Mount	-	-	✓	✓	✓	✓	✓	✓
Sealable Terminal Cover	✓	✓	✓	✓	✓	✓	✓	✓
Dims. (mm) H x W x D	65 x 44 x 30	69.5 x 44 x 30	70 x 49 x 30	74 x 49 x 30	78 x 60 x 30	95 x 70 x 40	111 x 85 x 30	126 x 90 x 45
	RI-CT160	RI-CT160H	Split Core Current Transformers	RI-CTS010-EW	RI-CTS016-EW	RI-CTS024-EW	RI-CTS036-EW	RI-CTS58MT
								
400...6000A **	400...6000A **		Primary Current	63A	63...100A	100...300A	250...600A	Multi Ratio 200, 400, 600, 800, 1000A
5A or 1A	5A or 1A		Secondary Current	easywire® 330mV	easywire® 330mV	easywire® 330mV	easywire® 330mV	5A or 1A
-	-		Cable Diameter	Ø 10mm	Ø 16mm	Ø 24mm	Ø 36mm	Ø 63mm
127 x 54mm	127 x 54mm		Busbar Aperture	-	-	-	-	-
-	-		Foot Mount	-	-	-	-	-
✓	✓		Busbar Mount	-	-	-	-	-
✓	✓		Sealable Terminal Cover	-	-	-	-	-
176 x 125 x 40	142 x 159 x 40		Dims. (mm) H x W x D	40.5 x 28.5 x 26.5	45.9 x 35.2 x 31.8	66.9 x 53.2 x 34.2	85.5 x 68 x 42	123 x 133 x 37

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Single Phase Current Transformers

RI-CT110	RI-CT120	RI-CT120H	RI-CT130	RI-CT130H	RI-CT140	RI-CT140H	RI-CT150	RI-CT150H
200...2000A	150...2000A **	150...2000A **	150...2500A **	150...2500A **	200...4000A **	200...4000A **	400...4000A **	400...4000A **
5A or 1A	5A or 1A	5A or 1A	5A or 1A	5A or 1A	5A or 1A	5A or 1A	5A or 1A	5A or 1A
Ø 60mm	-	-	-	-	-	-	-	-
60 x 30mm or 80 x 10mm or 50 x 50mm	65 x 32mm	65 x 32mm	84 x 34mm	84 x 34mm	105 x 38mm	105 x 38mm	127 x 38mm	127 x 38mm
-	-	-	-	-	-	-	-	-
Push in	-	-	-	-	-	-	-	-
✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓
124 x 100 x 40	111 x 90 x 40	107 x 95 x 40	133 x 96 x 40	113 x 116.5 x 40	154 x 96 x 40	113 x 137.5 x 40	176 x 98 x 40	115 x 159.5 x 40

RI-CTS023	RI-CTS058	RI-CTS088	RI-CTS812	RI-CTS816	NOW AVAILABLE	RI-CT055	RI-CT065	RI-CT075
100...400A	250...1000A	250...1000A	500...1600A	2000...6000A	Primary Current	30...300A	50...600A	100...800A
5A or 1A	5A or 1A	5A or 1A	5A or 1A	5A or 1A	Secondary Current	5A or 1A	5A or 1A	5A or 1A
-	-	-	-	-	Cable Diameter	Ø 21mm	Ø 24mm	Ø 28mm
20 x 30mm	50 x 80mm	80 x 80mm	80 x 120mm	80 x 160mm	Busbar Aperture	21 x 21mm	20 x 20mm / 30 x 10mm	40 x 10mm / 30 x 12mm
Push in	Push in	Push in	Push in	Push in	Foot Mount	Push in (+DIN Rail mount)	Push in (+DIN Rail mount)	Push in (+DIN Rail mount)
-	✓	✓	✓	✓	Busbar Mount	✓	✓	✓
✓	✓	✓	✓	✓	Sealable Terminal Cover	✓	✓	✓
109 x 89 x 40	145 x 115 x 51	154 x 145 x 51	196 x 145 x 52	250 x 186 x 52	Dims. (mm) H x W x D	78 x 60 x 74	78 x 60 x 74	78 x 60 x 74



Real-time data, anywhere, anytime

Your remote eyes on every system - collect data and control your energy usage from anywhere in the world!

- Remote monitoring and control from Cloud based Servers
- Customisable screens - 'snap where you want' widgets
- Asset management and tracking
- Automated energy billing
- Available in multiple languages

Building Management Systems

rayleighconnect™ monitors remotely your whole building(s) energy usage and holds the data in the cloud so you can access the information anytime.

Even historical data is kept so you can make comparisons of your energy consumption for gas, electricity and water over extended time periods.

Remote alerts can be set up to warn of discrepancies on the running of the building.

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rayleighconnect@rayleigh.com



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