

## Meters and Current Transformers Overview



**NOW**  
**MID** 

**easywire**

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"> <li>DIN 96 panel mounted</li> <li>-/5A current transformer input</li> <li>Three phase network compatible</li> <li>Programmable voltage and CT ratio</li> <li>True RMS measurement</li> <li>MID B+D Certified</li> <li>High definition white backlit LCD display</li> <li>Compact size - only 50mm panel depth</li> <li>Simple programming and operation</li> <li>Pulse output and RS485 Modbus communication</li> <li>Auto and manual page scrolling</li> </ul>	<ul style="list-style-type: none"> <li>DIN 96 panel mounted</li> <li>-/1A or -/5A current transformer input</li> <li>Single phase or three phase network compatible</li> <li>Programmable voltage and CT ratio</li> <li>True RMS measurement</li> <li>High definition white backlit LCD display</li> <li>Compact size - only 50mm panel depth</li> <li>Simple programming and operation</li> <li>Pulse output and Modbus communication (M-Bus available)</li> <li>Auto and manual page scrolling</li> </ul>	<ul style="list-style-type: none"> <li>DIN 72 panel mounted</li> <li>-/1A or -/5A current transformer input</li> <li>Single phase or three phase network compatible</li> <li>Programmable voltage and current transformer ratio</li> <li>True RMS measurement</li> <li>High definition white backlit LCD display</li> <li>Simple programming and operation</li> <li>Pulse output and Modbus communication (M-Bus available)</li> <li>Auto and manual page scrolling</li> </ul>	<ul style="list-style-type: none"> <li>DIN 96 panel mounted</li> <li>Tactile buttons and mono graphical display</li> <li>Real time clock</li> <li>Multi-tariff measurement</li> <li>2 x Digital inputs and 2 x relay outputs</li> <li>Pulse output and Modbus communication</li> <li>Harmonics up to the 63rd</li> <li>Active energy EN62053-22 Class 0.2S</li> <li>Event and alarm recording</li> <li>Up to four additional plug-in modules</li> <li>Waveform capture, waveform display, phasor diagrams etc.</li> <li>IP65 front</li> </ul>	<ul style="list-style-type: none"> <li>DIN 96 panel mounted</li> <li>Touch buttons and colour graphical display</li> <li>Real time clock</li> <li>Multi-tariff measurement</li> <li>2 x Digital inputs and 2 x relay outputs</li> <li>Pulse output and Modbus communication</li> <li>Harmonics up to the 63rd</li> <li>Active energy EN62053-22 Class 0.2S</li> <li>Event and alarm recording</li> <li>Up to four additional plug-in modules</li> <li>Waveform capture, waveform display, phasor diagrams etc.</li> <li>IP65 front</li> </ul>	<ul style="list-style-type: none"> <li>Four module DIN rail mounted</li> <li>Energy pulse LED</li> <li>-/1A or -/5A current transformer input (MID certification only on 5A current transformers)</li> <li>Single phase or three phase network compatible</li> <li>Programmable voltage and current transformer ratio</li> <li>True RMS measurement</li> <li>MID B+D Certified</li> <li>High definition white backlit LCD display</li> <li>Simple programming and operation</li> <li>Modbus or M-Bus communication</li> <li>Auto and manual page scrolling</li> </ul>	<ul style="list-style-type: none"> <li>Four module DIN rail mounted</li> <li>Energy pulse LED</li> <li>-/1A or -/5A current transformer input</li> <li>Single phase or three phase network compatible</li> <li>Programmable voltage and current transformer ratio</li> <li>True RMS measurement</li> <li>High definition white backlit LCD display</li> <li>Simple programming and operation</li> <li>Modbus or M-Bus communication</li> <li>Auto and manual page scrolling</li> </ul>
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		V (L-L, L-N) I, PF, Hz, Neutral current, Power (Active, Reactive and Apparent, Min./Max. demand), Energy (Active, reactive and apparent), Import and export energy	
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	Modbus and Pulse (M-Bus and Pulse soon)	Pulse Modbus and Pulse M-Bus and Pulse	Pulse Modbus and Pulse	Built-in Modbus & Pulse Extendable with modules	Built-in Modbus & Pulse Extendable with modules	Modbus (M-Bus and Pulse soon)	Modbus M-Bus
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

Energy Meters	RI-D18-100	RI-D175	RI-18-45	RI-D35	RI-76-100	RI-70-100	RI-D70
							
Type	Single Phase Multifunction	Single phase kWh MID Certified	Single phase kWh MID certified	Single Phase Multifunction MID Certified	Single Phase kWh MID Certified	Three Phase kWh MID Certified	Three Phase kWh MID Certified
Features	<ul style="list-style-type: none"> <li>Single module width DIN rail mounted</li> <li>100A direct connected</li> <li>High definition LCD display with blue backlight</li> <li>Import active energy measurement</li> <li>RS485 Modbus communication</li> <li>LED pulse indication</li> <li>Simple programming and operation</li> <li>Auto &amp; manual page scrolling</li> </ul>	<ul style="list-style-type: none"> <li>Single module width DIN rail mounted</li> <li>45A direct connection</li> <li>Available with LCD or mechanical display</li> <li>Import Energy measurement</li> <li>MID B+D Certified</li> <li>Modbus or M-Bus versions available</li> <li>LED pulse indication</li> </ul>	<ul style="list-style-type: none"> <li>Single module width DIN rail mounted</li> <li>45A direct connected</li> <li>High definition LCD display</li> <li>Import active energy measurement</li> <li>MID B+D Certified</li> <li>LED pulse indication</li> </ul>	<ul style="list-style-type: none"> <li>Two module width DIN rail mounted</li> <li>100A direct connected</li> <li>High definition LCD display with white backlight</li> <li>Import and export energy measurement</li> <li>Single pulse output</li> <li>RS485 Modbus or M-Bus models available</li> <li>Two pulse outputs</li> <li>MID B+D Certified</li> <li>Dual LED pulse indication</li> <li>Simple programming and operation</li> <li>Auto or manual page scrolling</li> </ul>	<ul style="list-style-type: none"> <li>Four module width DIN rail mounted</li> <li>100A direct connected</li> <li>High definition LCD display</li> <li>Import active energy measurement</li> <li>Single pulse output</li> <li>MID B+D Certified</li> <li>LED pulse indication</li> </ul>	<ul style="list-style-type: none"> <li>Four module width DIN rail mounted</li> <li>100A direct connected</li> <li>High definition LCD display</li> <li>Import active energy measurement</li> <li>Single pulse output</li> <li>MID B+D Certified</li> <li>LED pulse indication</li> </ul>	<ul style="list-style-type: none"> <li>Four module width DIN rail mounted</li> <li>100A direct connected</li> <li>High definition LCD display</li> <li>Import active energy measurement</li> <li>Single pulse output</li> <li>MID B+D Certified</li> <li>LED pulse indication</li> </ul>
Parameters	V (L-N), I, PF, Active Power, Reactive Power, Apparent Power, Import Active Energy (kWh)	kWh (Via Modbus - V, I, PF, Hz)	kWh	V (L-N), I, PF, Active Power, Reactive Power, Apparent Power, Import Active Energy (kWh)	kWh	kWh	V (L-L, L-N), I, PF, Active Power, Reactive Power, Apparent Power, Import Active Energy (kWh)
Mounting Connection	DIN Rail (35mm) Direct	DIN Rail (35mm) Direct	DIN Rail (35mm) Direct	DIN Rail (35mm) Direct	DIN Rail (35mm) Direct	DIN Rail (35mm) Direct	DIN Rail (35mm) Direct
Communication Options	Modbus	Modbus and Pulse M-Bus and Pulse	Pulse	Modbus and Pulse M-Bus and Pulse	Pulse	Pulse	Modbus and Pulse M-Bus and Pulse
MID Certified	—	✓	✓	✓	✓	✓	✓
Dims. (mm) H x W x D	95 x 18 x 72	95 x 18 x 72	120 x 17.5 x 63	90 x 35 x 65	100 x 76 x 65	110 x 70 x 64.5	115 x 78 x 65

easywire® Energy Meters							
	RI-F300	RI-F400	RI-D340	RI-D440	RI-D360	RI-D460	RI-D480
Type	Single and Three Phase Multifunction MID Certified	Single and Three Phase Multifunction	Three Phase Multifunction MID Certified	Three Phase Multifunction	Dual Load Three Phase Multifunction MID Certified	Dual Load Three Phase Multifunction	Quad Load Three Phase Multifunction
Features	<ul style="list-style-type: none"> <li>• DIN 96 panel mounted</li> <li>• Input from <b>easywire®</b> Current Transformers</li> <li>• Single phase or three phase network compatible</li> <li>• Programmable voltage and CT ratio</li> <li>• True RMS measurement</li> <li>• MID B+D Certified</li> <li>• Backlit LCD display</li> <li>• Easy to program &amp; operate</li> <li>• Pulse output and Modbus communication</li> <li>• Daisy chaining up to 32 meters from one supply</li> </ul>	<ul style="list-style-type: none"> <li>• DIN 96 panel mounted</li> <li>• Input from <b>easywire®</b> Current Transformers (-/1A or -/5A CTs with converter)</li> <li>• Single phase or three phase network compatible</li> <li>• Programmable voltage and current transformer ratio</li> <li>• True RMS measurement</li> <li>• MID B+D</li> <li>• Backlit LCD display</li> <li>• Easy to program &amp; operate</li> <li>• Pulse output and Modbus communication</li> <li>• Daisy chaining up to 32 meters from one supply</li> </ul>	<ul style="list-style-type: none"> <li>• Four module DIN rail mounted</li> <li>• Input from <b>easywire®</b> Current Transformers (-/1A or -/5A CTs with converter)</li> <li>• Energy pulse LED</li> <li>• Single phase or three phase network compatible</li> <li>• Programmable voltage and CT ratio</li> <li>• True RMS measurement</li> <li>• MID B+D</li> <li>• Backlit LCD display</li> <li>• Easy to program &amp; operate</li> <li>• Pulse output and Modbus communication (M-Bus available)</li> <li>• Daisy chaining up to 32 meters from one supply</li> </ul>	<ul style="list-style-type: none"> <li>• Four module DIN rail mounted</li> <li>• Input from <b>easywire®</b> Current Transformers (-/1A or -/5A CTs with converter)</li> <li>• Energy pulse LED</li> <li>• Single phase or three phase network compatible</li> <li>• CT ratios programmable by load (Load 1 and 2)</li> <li>• Programmable voltage transformer ratio</li> <li>• True RMS measurement</li> <li>• MID B+D Certified</li> <li>• Backlit LCD display</li> <li>• Easy to program &amp; operate</li> <li>• Pulse output and Modbus communication</li> <li>• Daisy chaining up to 32 meters from one supply</li> </ul>	<ul style="list-style-type: none"> <li>• Four module DIN rail mounted</li> <li>• 2 x Inputs from <b>easywire®</b> CTs</li> <li>• Energy pulse LED</li> <li>• Single phase or three phase network compatible</li> <li>• CT ratios programmable by load (Load 1 and 2)</li> <li>• Programmable voltage transformer ratio</li> <li>• True RMS measurement</li> <li>• MID B+D Certified</li> <li>• Backlit LCD display</li> <li>• Easy to program &amp; operate</li> <li>• 2 x Pulse outputs and Modbus communication (M-Bus available)</li> <li>• Linkable meter supply</li> </ul>	<ul style="list-style-type: none"> <li>• Four module DIN rail mounted</li> <li>• 4 x separate 3 Phase or 6 x Single Phase inputs from <b>easywire®</b> CTs (-/1A or -/5A CTs with converter)</li> <li>• Energy pulse LED</li> <li>• Single phase or three phase network compatible</li> <li>• CT ratios programmable by load (Load 1, 2, 3, 4)</li> <li>• Programmable voltage transformer ratio</li> <li>• True RMS measurement</li> <li>• Backlit LCD display</li> <li>• Easy to program &amp; operate</li> <li>• Modbus communication</li> <li>• Linkable meter supply</li> </ul>	<ul style="list-style-type: none"> <li>• Four module DIN rail mounted</li> <li>• 4 x separate 3 Phase or 12 x Single Phase inputs from <b>easywire®</b> CTs (-/1A or -/5A CTs with converter)</li> <li>• Energy pulse LED</li> <li>• Single phase or three phase network compatible</li> <li>• CT ratios programmable by load (Load 1, 2, 3, 4)</li> <li>• Programmable voltage transformer ratio</li> <li>• True RMS measurement</li> <li>• Backlit LCD display</li> <li>• Easy to program &amp; operate</li> <li>• Modbus communication</li> <li>• Linkable meter supply</li> </ul>
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 (L-L, L-N) I, PF, Hz, Neutral current, Power (Active, Reactive and Apparent, Min./Max. demand), Energy (Active, reactive and apparent), Import and export energy			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)
Mounting	Panel - DIN 96	Panel - DIN 96	DIN Rail (35mm)	DIN Rail (35mm)	DIN Rail (35mm)	DIN Rail (35mm)	DIN Rail (35mm)
Connection	Current Transformer	Current Transformer	Current Transformer	Current Transformer	Current Transformer	Current Transformer	Current Transformer
Communication Options	Pulse Modbus and Pulse	Pulse Modbus and Pulse	Modbus and Pulse M-Bus and Pulse	Modbus and Pulse	Modbus and 2 x Pulse M-Bus and 2 x Pulse	Modbus and 2 x Pulse	Modbus
MID Certified	✓	-	✓	-	✓	-	-
Dims. (mm) H x W x D	99 x 99 x 50	99 x 99 x 50	90 x 70 x 68	90 x 70 x 68	90 x 70 x 68	90 x 70 x 68	90 x 70 x 68

	RI-CT240-EW	RI-CT242-EW	RI-CT249-EW	RI-CT248-EW	RI-CT250-EW
<b>easywire® Three Phase Current Transformers</b>					
Primary Current	60...160A	60...250A	60...160A	250...630A	630...1600A
Secondary Current Centres	330mV 25mm	330mV 35mm	330mV 29mm	330mV 45mm	330mV 70mm
Cable Diameter	Ø 15mm	Ø 21mm	Ø 16mm	Ø 31mm	Ø 50mm
Aperture	15.5 x 30mm	21 x 25mm	16 x 20mm	31 x 31mm	54 x 50mm
DIN Rail Mount	Supplied	Supplied	Supplied	Supplied	Supplied
Foot Mount	Push in				
Busbar Mount	✓	✓	✓	✓	✓
Sealable Terminal Cover	✓	✓	✓	✓	✓
Dimensions (mm) H x W x D	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

	TAS240	TAS242	TAS248	TAS250	Rogowski Coils
<b>Three Phase Current Transformers</b>					
Primary Current	60...200A	60...250A	250...630A	630...1600A	
Secondary Current Centres	5A or 1A 25mm	5A or 1A 35mm	5A or 1A 45mm	5A or 1A 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	
Foot Mount	Integral Moulded Foot	Integral Moulded Foot	Integral Moulded Foot	Push in	
Busbar Mount	—	—	—	✓	
Sealable Terminal Cover	✓	✓	✓	✓	
Dimensions (mm) H x W x D	80 x 75 x 75	80 x 105 x 54	90 x 140 x 53	124 x 214 x 52	

- 3 Phase
- High accuracy
- Plug and Play
- Daisy-chain power

## Single Phase Current Transformers

	RI-CT050	RI-CT060	RI-CT070	RI-CT080	RI-CT090	RI-CT100	RI-CT110	RI-CT120
<b>Primary Current</b>	40...300A	100...500A	100...800A	250...1250A	400...1600A	400...2000A	400...2000A	150...2000A
<b>Secondary Current</b>	5A or 1A	5A or 1A	5A or 1A	5A or 1A	5A or 1A	5A or 1A	5A or 1A	5A or 1A
<b>Cable Diameter</b>	Ø 21mm	Ø 24mm	Ø 28mm	Ø 40mm	Ø 45mm	—	Ø 60mm	—
<b>Busbar Aperture</b>	—	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	60 x 30mm or 80 x 10mm or 50 x 50mm	65 x 32mm
<b>DIN Rail Mount</b>	Supplied	Supplied	Supplied	Supplied	—	—	—	—
<b>Foot Mount</b>	Push in	Push in	Push in	Push in	Push in	Push in	Push in	—
<b>Busbar Mount</b>	—	✓	✓	✓	✓	✓	✓	✓
<b>Sealable Terminal Cover</b>	✓	✓	✓	✓	✓	✓	✓	✓
<b>Dims. (mm) H x W x D</b>	65 x 44 x 30	70 x 49 x 30	78 x 60 x 30	95 x 70 x 40	111 x 85 x 30	126 x 90 x 45	124 x 100 x 40	111 x 90 x 40

## Split Core Current Transformers

	RI-CTS010	RI-CTS016	RI-CTS024	RI-CTS036	RI-CTS58MT	RI-CTS230	RI-CTS580
<b>Primary Current</b>	5...75A	50...160A	100...300A	250...630A	Multi Ratio 200, 400, 600, 800, 1000A	100...400A	200...1000A
<b>Secondary Current</b>	.333mV	.333mV	5A or 1A	5A or 1A	5A or 1A	5A or 1A	5A or 1A
<b>Cable Diameter</b>	Ø 10mm	Ø 16mm	Ø 24mm	Ø 36mm	Ø 63mm	—	—
<b>Busbar Aperture</b>	—	—	—	—	—	20 x 30mm	50 x 80mm
<b>Foot Mount</b>	—	—	—	—	—	Push in	Push in
<b>Busbar Mount</b>	—	—	—	—	—	—	✓
<b>Sealable Terminal Cover</b>	—	—	—	—	—	✓	✓
<b>Dims. (mm) H x W x D</b>	40.5 x 25.5 x 26	44.5 x 32 x 31	66.5 x 50.5 x 41	84 x 57.5 x 42	123 x 133 x 37	109 x 89 x 40	145 x 115 x 51

RI-CT120H	RI-CT130	RI-CT130H	RI-CT140	RI-CT140H	RI-CT150	RI-CT150H	RI-CT160	RI-CT160H
150...2000A	150...2500A	150...2500A	200...4000A	200...4000A	400...4000A	400...4000A	400...6000A	400...6000A
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
—	—	—	—	—	—	—	—	—
65 x 32mm	84 x 34mm	84 x 34mm	105 x 38mm	105 x 38mm	127 x 38mm	127 x 38mm	127 x 54mm	127 x 54mm
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓
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	176 x 125 x 40	142 x 159 x 40

RI-CTS880	RI-CTS812	RI-CTS816	RI-CTP010	RI-CTP040
250...1000A	500...1600A	2000...6000A	1...40A	30...150A
5A or 1A	5A or 1A	5A or 1A	5A or 1A	5A or 1A
—	—	—	—	—
80 x 80mm	80 x 120mm	80 x 160mm	Push in	Push in
Push in	Push in	Push in	Push in	Push in
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
154 x 145 x 51	196 x 145 x 52	250 x 186 x 52	80 x 62 x 50	97 x 80 x 44

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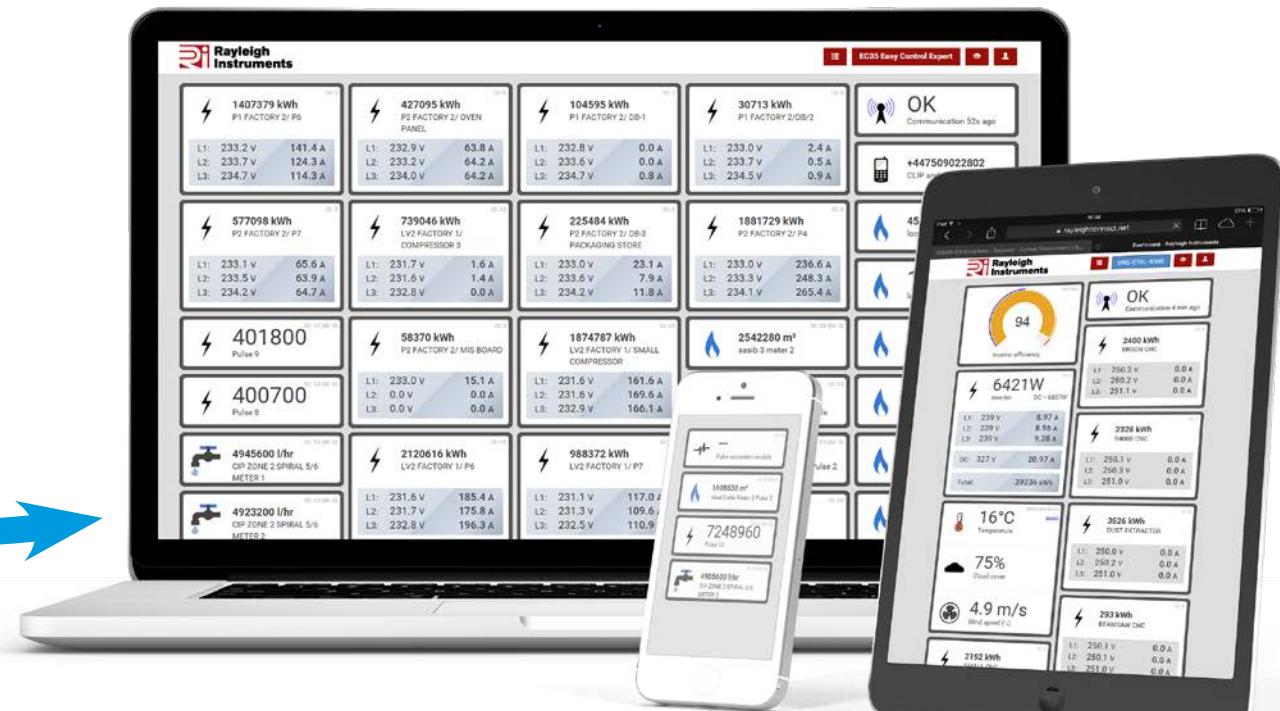
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