























Meters and Current Transformers Overview



| | RIF100 | RI-F200 | RI-F220 | RI-F500 | RI-F550 | RI-D140 | RI-D240 |
|------------------------------|--|---|--|---|---|---|--|
| Energy Meters |  |  |  |  |  |  |  |
| | MID ✓ | | | | | MID ✓ | |
| 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 CT ratio True RMS measurement MID B+D Certified High definition white backlit LCD display Compact size - only 50mm panel depth Simple programming and operation Pulse output and RS485 Modbus communication Auto and manual page scrolling | <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 CT ratio True RMS measurement High definition white backlit LCD display Compact size - only 50mm panel depth Simple programming and operation Pulse output and Modbus communication (M-Bus available) Auto and manual page scrolling | <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 Pulse output and Modbus communication (M-Bus available) Auto and manual page scrolling | <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 Pulse output and Modbus communication Harmonics up to the 63rd 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 | <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 Pulse output and Modbus communication Harmonics up to the 63rd 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 | <ul style="list-style-type: none"> Four module DIN rail mounted Energy pulse LED -/1A or -/5A current transformer input (MID certification only on 5A current transformers) Single phase or three phase network compatible Programmable voltage and CT ratio True RMS measurement MID B+D Certified High definition white backlit LCD display Simple programming and operation Modbus communication 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 Modbus or M-Bus communication 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 | | 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 | Direct | Direct | 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 |
| PRIJS | €194 | €174 | €137 | €200 | €237 | €143 | €130 |
| 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 |

| RI-D18-100 | RI-D175 | RI-18-45 | RI-D35 | RI-76-100 | RI-78-80 | RI-70-100 | RI-D70 |
|--|---|---|--|--|---|--|--|
|  |  MID ✓ |  MID ✓ |  MID ✓ |  MID ✓ |  MID ✓ |  MID ✓ |  MID ✓ |
| Single Phase Multifunction | Single phase kWh MID Certified | Single phase kWh MID certified | Single Phase Multifunction MID Certified | Single Phase kWh MID Certified | Single Phase kWh MID Certified | Three Phase kWh MID Certified | Three Phase kWh MID Certified |
| <ul style="list-style-type: none"> • Single module width DIN rail mounted • 100A direct connected • High definition LCD display with blue backlight • Import active energy measurement • RS485 Modbus communication • LED pulse indication • Simple programming and operation • Auto & manual page scrolling | <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 • Modbus or M-Bus versions available • LED pulse indication | <ul style="list-style-type: none"> • Single module width DIN rail mounted • 45A direct connected • High definition LCD display • Import active energy measurement • Single pulse output • MID B+D Certified • 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 • RS485 Modbus or M-Bus models available • Two pulse outputs • 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 • Single pulse output • MID B+D Certified • LED pulse indication | <ul style="list-style-type: none"> • Four module width DIN rail mounted • 80A direct connected • High definition LCD display • Import active energy measurement • RS485 Modbus • Single pulse output • MID B+D Certified • LED pulse indication • Simple programming and operation | <ul style="list-style-type: none"> • Four module width DIN rail mounted • 100A direct connected • High definition LCD display • Import active energy measurement • Single pulse output • MID B+D Certified • LED pulse indication | <ul style="list-style-type: none"> • Four module width DIN rail mounted • 100A direct connected • High definition LCD display • Import active energy measurement • Single pulse output • MID B+D Certified • LED pulse indication |
| 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 | V (L-L, L-N), I, PF, Active Power, Reactive Power, Apparent Power, Import Active Energy (kWh) |
| 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 | DIN Rail (35mm) Direct |
| Modbus | Modbus and Pulse M-Bus and Pulse | Pulse | Modbus and Pulse M-Bus and Pulse | Pulse | Pulse | Pulse | Modbus and Pulse M-Bus and Pulse |
| €56 | €48 | €27,50 | €57,50 | €44,50 | €47,50 | €108 | €202 |
| 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 | 115 x 78 x 65 | 110 x 70 x 64.5 | 115 x 78 x 65 |

| | RI-F300 | RI-F400 | RI-D340 | RI-D440 | RI-D360 | RI-D460 | RI-D480 |
|--|---|---|---|--|---|---|---|
| easywire® Energy Meters |  |  |  |  |  |  |  |
| | MID ✓ | | MID ✓ | | | MID ✓ | |
| 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"> DIN 96 panel mounted Input from easywire® Current Transformers Single phase or three phase network compatible Programmable voltage and CT ratio True RMS measurement MID B+D Certified Backlit LCD display Easy to program & operate Pulse output and Modbus communication Daisy chaining up to 32 meters from one supply | <ul style="list-style-type: none"> DIN 96 panel mounted Input from easywire® Current Transformers (-/1A or -/5A CTs with converter) Single phase or three phase network compatible Programmable voltage and current transformer ratio True RMS measurement Backlit LCD display Easy to program & operate Pulse output and Modbus communication Daisy chaining up to 32 meters from one supply | <ul style="list-style-type: none"> Four module DIN rail mounted Input from easywire® Current Transformers Energy pulse LED Single phase or three phase network compatible Programmable voltage and CT ratio True RMS measurement MID B+D Backlit LCD display Easy to program & operate Pulse output and Modbus communication (M-Bus available) Daisy chaining up to 32 meters from one supply | <ul style="list-style-type: none"> Four module DIN rail mounted Input from easywire® Current Transformers (-/1A or -/5A CTs with converter) Energy pulse LED Single phase or three phase network compatible Programmable voltage and CT ratio True RMS measurement Backlit LCD display Easy to program & operate Pulse output and Modbus communication Daisy chaining up to 32 meters from one supply | <ul style="list-style-type: none"> Four module DIN rail mounted 2 x Inputs from easywire® CTs Energy pulse LED Single phase or three phase network compatible CT ratios programmable by load (Load 1 and 2) Programmable voltage transformer ratio True RMS measurement MID B+D Certified Backlit LCD display Easy to program & operate 2 x Pulse outputs and Modbus communication (M-Bus available) Linkable meter supply | <ul style="list-style-type: none"> Four module DIN rail mounted 2 x separate 3 Phase or 6 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 and 2) Programmable voltage transformer ratio True RMS measurement Backlit LCD display Easy to program & operate 2 x Pulse outputs and Modbus communication Linkable meter supply | <ul style="list-style-type: none"> 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 Modbus communication Linkable meter supply |
| 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 Connection | Panel - DIN 96 Current Transformer | Panel - DIN 96 Current Transformer | DIN Rail (35mm) Current Transformer | DIN Rail (35mm) Current Transformer | DIN Rail (35mm) Current Transformer | DIN Rail (35mm) Current Transformer | DIN Rail (35mm) 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 |
| Prijs | €210 | €172 | € | €199 | ✓ | €219 | €335 |
| 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 |
|---|---|--|---|---|---|
| Three Phase Current Transformers |  Prijs €51,75 |  Prijs €46,50 |  Prijs €49,00 |  Prijs €49,00 |  Prijs €77,50 |
| Primaire stroom | 60...160A | 60...250A | 60...160A | 250...630A | 630...1600A |
| Secundaire stroom | 330mV | 330mV | 330mV | 330mV | 330mV |
| Afstand openingen | 25mm | 35mm | 29mm | 45mm | 70mm |
| Kabel diameter | Ø 15mm | Ø 21mm | Ø 16mm | Ø 31mm | Ø 50mm |
| Opening | 15.5 x 30mm | 21 x 25mm | 16 x 20mm | 31 x 31mm | 54 x 50mm |
| Din rail montage | Supplied | Supplied | Supplied | Supplied | Supplied |
| Voetmontage | Push in | Push in | Push in | Push in | Push in |
| Montage op koperrail | ✓ | ✓ | ✓ | ✓ | ✓ |
| Schroefaansl. afsluitb. | ✓ | ✓ | ✓ | ✓ | ✓ |
| DIM (mm) HxBxD | 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 |
|---|--|---|--|--|---|
| Three Phase Current Transformers |  Prijs €39,50 |  Prijs €39,50 |  Prijs €39,50 |  Prijs €49,50 |  NEW PRODUCT NEW PRODUCT NEW PRODUCT |
| Primaire stroom | 60...200A | 60...250A | 250...630A | 630...1600A | |
| Secundaire stroom | 5A or 1A | 5A or 1A | 5A or 1A | 5A or 1A | |
| afstand opening | 25mm | 35mm | 45mm | 70mm | |
| Kabel diameter | Ø 21mm | Ø 24mm | Ø 28mm | Ø 40mm | |
| Opening | 15.5 x 30mm | 21 x 25mm | 31 x 31mm | 54 x 50mm | |
| DINrail bevestiging | - | - | - | Supplied | |
| Voet montage | Integral Moulded Foot | Integral Moulded Foot | Integral Moulded Foot | Push in | |
| Montage op koperrail | - | - | - | ✓ | |
| Schroefaansl. afsluitb. | ✓ | ✓ | ✓ | ✓ | |
| DIM (mm) HxBxD | 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

| | RI-CT050 | RI-CT060 | RI-CT070 | RI-CT080 | RI-CT090 | RI-CT100 | RI-CT110 | RI-CT120 |
|--|--|--|---|--|--|--|--|---|
| Single Phase Current Transformers |  |  |  |  |  |  |  |  |
| | Prijs €9,40 | Prijs €12,30 | Prijs €15,80 | Prijs €28,00 | Prijs €23,00 | Prijs €33,80 | Prijs €32,00 | Prijs €23,00 |
| Primaire stroom | 40...300A | 100...500A | 100...800A | 250...1250A | 400...1600A | 400...2000A | 400...2000A | 150...2000A |
| Secundaire stroom | 5A or 1A | 5A or 1A | 5A or 1A | 5A or 1A | 5A or 1A | 5A or 1A | 5A or 1A | 5A or 1A |
| Kabeldiameter | Ø 21mm | Ø 24mm | Ø 28mm | Ø 40mm | Ø 45mm | - | Ø 60mm | - |
| Opening koperrail | - | 20 x 20mm or 30 x 10mm | 40 x 10mm or 30 x 10mm | 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 |
| Dinrail bevestiging | Supplied | Supplied | Supplied | Supplied | - | - | - | - |
| Voet montage | Push in | Push in | Push in | Push in | Push in | Push in | Push in | - |
| Bevestiging op rail | - | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Schroefaansl.afsluitb. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DIM.(mm)HxBxD | 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 |
| | RI-CTS010 | RI-CTS016 | RI-CTS024 | RI-CTS036 | RI-CTS58MT | RI-CTS230 | RI-CTS580 | |
| Split Core Current Transformers |  |  |  |  |  |  |  | |
| | Prijs €25,50 | Prijs €30,00 | Prijs €34,00 | Prijs €40,00 | Prijs €77,00 | Prijs €57,00 | Prijs €63,00 | |
| Primaire stroom | 5...75A | 50...160A | 100...300A | 250...630A | Multi Ratio 200, 400, 600, 800, 1000A | 100...400A | 200...1000A | |
| Secundaire stroom | .333mV | .333mV | 5A or 1A | 5A or 1A | 5A or 1A | 5A or 1A | 5A or 1A | |
| Kabeldiameter | Ø 10mm | Ø 16mm | Ø 24mm | Ø 36mm | Ø 63mm | - | - | |
| Opening koperrail | - | - | - | - | - | 20 x 30mm | 50 x 80mm | |
| Voet montage | - | - | - | - | - | Push in | Push in | |
| Bevestiging op rail | - | - | - | - | - | - | ✓ | |
| Schroefaansl.afsluitb. | - | - | - | - | - | ✓ | ✓ | |
| DIM.(mm) HxBxD | 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 |
|--|---|---|---|--|---|---|---|---|
|  |  |  |  |  |  |  |  |  |
| Prijs €23,00 | Prijs €25,70 | Prijs €25,70 | Prijs 27,30 | Prijs €27,30 | Prijs 30,40 | Prijs €30,40 | Prijs €32,50 | Prijs €32,50 |
| 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 |
|---|--|--|--|---|
|  |  |  |  |  |
| Prijs €67,00 | Prijs €80,00 | Prijs €152,00 | | |
| 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 |
| ✓ | ✓ | ✓ | - | - |
| ✓ | ✓ | ✓ | ✓ | ✓ |
| 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 |

Also available from Rayleigh Instruments:

- Class X CTs • High Accuracy CTs • Protection Class CTs
- Ring Type CTs • Core Balanced CTs • Special Order CTs



Rayleigh Instruments

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- 50+ Years of successful trading (Est. 1964)
- Full after sales support
- BSI Certified ISO9001:2015
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Remotely monitor, collect data and control from anywhere in the world!

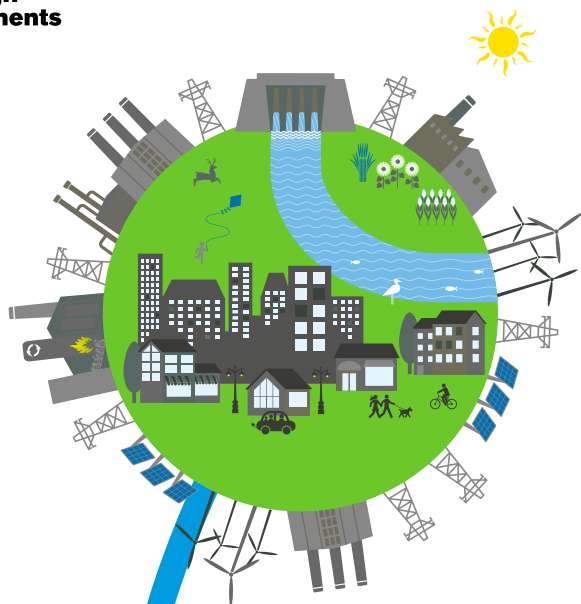
rayleighconnect™

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.

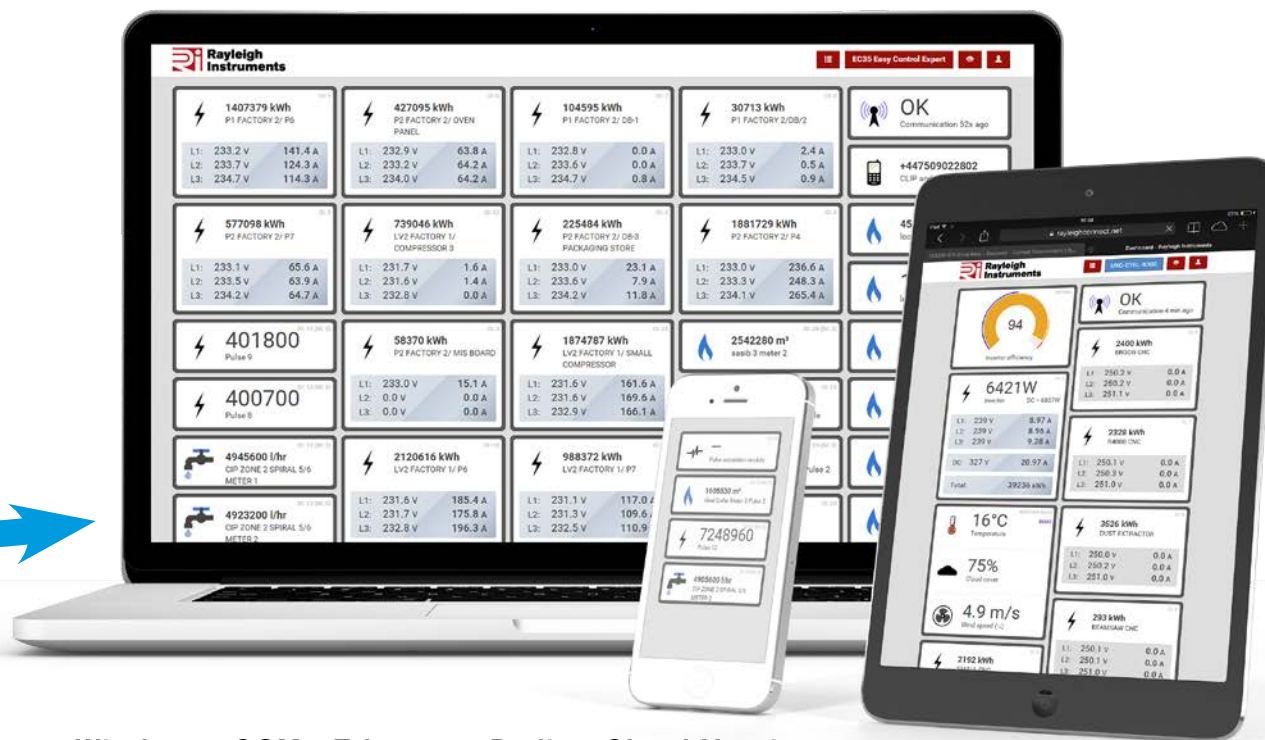
Even historical data is kept so you can make comparisons of your energy consumption for gas, electricity and water over extended time periods.

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



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CLOUD BASED SERVERS

“ Multiple devices, multiple venues all accessible from my PC. Beautifully clear and easy to use - brilliant! ”



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