



Main

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| Range | Acti 9 |
| Family | Acti 9 iEM2100 |
| Device short name | IEM2155 |
| Product or component type | Energy meter |

Complementary

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| Poles description | 1P + N |
| Type of measurement | Active and reactive power Active and reactive energy Voltage Current |
| Metering type | Active, reactive, apparent energy (signed, four quadrant) |
| Device application | Sub billing Multi-tariff Partial meter |
| Accuracy class | Active energy : class 1 according to IEC 62053-21 Active energy : class B according to EN 50470-3 Reactive energy : class 2 according to IEC 62053-23 |
| Input type | Direct input |
| Rated current | 63 A |
| Rated voltage | 230 V +/- 20 % |
| Network frequency | 50 Hz 60 Hz |
| Frequency measurement range | 45...65 Hz |
| Technology type | Electronic |
| Display type | LCD display |
| Sampling rate | 32 samples/cycle |
| Measurement current | 0...63 A |
| Display digits | 8 |
| Maximum value measured | 999999.99 kWh |
| Tariff input | 2 tariff |
| Communication port protocol | Modbus RTU 3 wires, : 1.2, 2.4, 4.8, 9.6, 19.2 and 38.4 kbauds, even/odd or none, insulation: 4000 V |
| Communication port support | RS485 (screw terminals) |
| Local signalling | LED (red) : accuracy checking 1...1000 p/kWh |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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| Digital inputs | 1 digital (tariff switching) |
| Digital outputs | 0 |
| Supply voltage | 96...276 V AC 50 Hz |
| Power consumption in VA | <= 2 VA |
| Power consumption in W | <= 1 W |
| [Uimp] rated impulse withstand voltage | 6 kV 1.2/50 µs |
| Mounting mode | Clip-on |
| Mounting support | DIN rail |
| Connections - terminals | Power circuit : bottom tunnel type terminals for 1 1.65...33 mm ² solid cable(s) Power circuit : bottom tunnel type terminals for 1 1.65...33 mm ² stranded cable(s) with cable end Communication : top screw clamp terminals for 1 1...4 mm ² solid cable(s) Communication : top screw clamp terminals for 1 1...2.5 mm ² stranded cable(s) with cable end |
| Tightening torque | Power circuit : 2 N.m with PZ2 Communication : 0.5 N.m (3.5 mm blade) |
| Wire stripping length | Power circuit : 17 mm Communication : 7 mm |
| Standards | IEC 62053-21 IEC 62053-23 IEC 62052-11 IEC 62052-31 |
| Product certifications | MID conforming to EN 50470-1 MID conforming to EN 50470-3 CE |

Environment

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|---------------------------------------|------------------------------|
| IP degree of protection | IP20 conforming to IEC 60529 |
| Overvoltage category | III |
| Pollution degree | 2 |
| Flame retardance | V0 conforming to UL 94 |
| Ambient air temperature for operation | -25...55 °C |
| Ambient air temperature for storage | -25...70 °C |
| Relative humidity | 95 % |
| Colour | White |
| 9 mm pitches | 4 |
| Width | 36 mm |
| Height | 90 mm |
| Depth | 64 mm |
| Product weight | 0.175 kg |

Offer Sustainability

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|------------------------|---|
| RoHS (date code: YYWW) | Compliant - since 1610 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold |