# Product data sheet
## Characteristics

# METSEEM4236A12
## Enercept Meter, class 0.2S, Modbus/BACnet RS485, Rogowski 12", ANSI wire code

### Main

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|---|---|
| Range | PowerLogic |
| Product name | PowerLogic EM4200 |
| Device short name | Enercept |
| Product or component type | Energy meter |
| Type of cable | ANSI cable |
| Device application | Power monitoring |

### Complementary

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|---|---|
| Metering type | Active, reactive, apparent energy (signed, four quadrant)<br>Apparent power S, S1, S2, S3<br>Demand power P, Q, S<br>Active power P, P1, P2, P3<br>Reactive power Q, Q1, Q2, Q3<br>Power factor<br>Average current Iavg<br>Peak demand power PM, QM, SM<br>Frequency<br>Voltage U21, U32, U13, V1, V2, V3 |
| Accuracy class | Class 1 conforming to ANSI C12.1<br>Class 1S conforming to IEC 62053-22 |
| Measurement accuracy | 1 % |
| Measurement current | 50…5000 A |
| Measurement voltage | 90 V AC 45...65 Hz minimum per phase<br>480 V AC 45...65 Hz between phases<br>300 V AC 45...65 Hz between phase and neutral |
| Frequency measurement range | 45…65 Hz |
| Network frequency | 50 Hz<br>60 Hz |
| Display type | Without Display |
| Local signalling | Status: LED (green and red)<br>Line fault 3 LED green, orange and red)<br>Dial pointer indication: LED (yellow)<br>RX/TX 2 LED green, orange and red) |
| Signal | Rogowski coil 0.333 V (impedance 33 kOhm)<br>Voltage (impedance 2.5 MOhm)single phase<br>Voltage (impedance 5 MOhm)phase to phase |
| Number of inputs | 0 |
| Number of outputs | 0 |
| Communication port protocol | Modbus RTU at 9600 bauds...115200 bauds (automatic detection)<br>BACnet MS/TP at 9600 bauds...115200 bauds (automatic detection) |
| Communication of data | Remote control orders<br>Total energy<br>Net energy |
| Demand intervals | External synchronisation to communication<br>Fixed or rolling block |
| Provided equipment | Bracket for support<br>Hook<br>Rogowski coil 3 12 in (304.80 mm)<br>Fuse |

| | |
|---|---|
| Connections - terminals | Input/Output plug-in connector bottom) 0.00…0.00 in² (0.2…1.5 mm²)<br>Current transformer plug-in connector bottom) 0.00…0.00 in² (0.2…1.5 mm²)<br>Communication plug-in connector bottom) 0.00…0.00 in² (0.2…1.5 mm²) |
| Wire stripping length | 0.24 in (6 mm) |
| Mounting mode | By screws<br>Clip-on<br>By hook |
| Mounting support | Enclosure<br>DIN rail |
| Standards | EN 61010-1<br>UL 61010-1<br>CAN/CSA C22.2 No. 1010.1-92 |
| Product certifications | CE EN 61010-1<br>CULus UL 61010-1<br>BTL<br>IEC |
| Width | 1.84 in (46.63 mm) |
| Depth | 1.41 in (35.81 mm) |
| Height | 6.00 in (152.36 mm) |

## Environment

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|---|---|
| Measurement category | Category III 277 V<br>Category III 300 V |
| Electromagnetic compatibility | Conducted and radiated emissions conforming to FCC part 15 class A<br>Conducted and radiated emissions conforming to EN 61000-6-4<br>Conducted and radiated emissions conforming to EN 61326 + A1<br>Immunity to conducted disturbances conforming to EN 61000-6-2<br>Immunity to conducted disturbances conforming to EN 61326-1<br>Immunity to radiated fields conforming to EN 61000-6-2<br>Immunity to radiated fields conforming to EN 61326-1 |
| IP degree of protection | IP20 conforming to IEC 60529 |
| Relative humidity | 0…95 % |
| Pollution degree | 2 |
| Ambient air temperature for operation | 5…140 °F (-15…60 °C) |
| Ambient air temperature for storage | -40…185 °F (-40…85 °C) |
| Operating altitude | < 9842.52 ft (3000 m) |

## Ordering and shipping details

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|---|---|
| Category | 09791 - POWERLOGIC ENERCEPT POWER METER |
| Discount Schedule | PL1 |
| Package weight(Lbs) | 3.1 lb(US) (1.41 kg) |
| Returnability | No |

## Offer Sustainability

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|---|---|
| REACh Regulation | REACh Declaration |
| REACh free of SVHC | Yes |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |