



## Main

|                           |                  |
|---------------------------|------------------|
| Range                     | EasyLogic        |
| Product name              | EasyLogic PM2200 |
| Device short name         | PM2220           |
| Product or component type | Power meter      |

## Complementary

|                        |  |
|------------------------|--|
| Device application     | Power monitoring<br>Sub billing  |
| Power quality analysis | total harmonic distortion<br>up to the 15th harmonic   |
| Type of measurement    | Apparent power min/max, total<br>Active and reactive power min/max, total<br>Current min/max, avg<br>Voltage min/max, avg<br>Frequency min/max, avg<br>Total current harmonic distortion THD (I) per phase<br>Total voltage harmonic distortion THD (U) per phase<br>Power factor min/max, avg<br>Apparent energy total<br>Active and reactive energy total    |
| Metering type          | Active, reactive, apparent energy (signed, four quadrant)<br>Current I, I1, I2, I3<br>Peak demand currents<br>Peak demand power PM, QM, SM<br>Unbalance current<br>Active power P, P1, P2, P3<br>Reactive power Q, Q1, Q2, Q3<br>Demand power P, Q, S<br>Voltage U, U21, U32, U13, V, V1, V2, V3<br>Apparent power S, S1, S2, S3<br>Calculated neutral current |
| Accuracy class         | Class 1 active energy conforming to IEC 62053-21<br>Class 1 reactive energy conforming to IEC 62053-24   |

Class 5 harmonic distortion (I THD & U THD)

|                                 |   |
|---------------------------------|---|
| Measurement accuracy            | Apparent power +/- 1 %<br>Active energy +/- 1 %<br>Reactive energy +/- 1 %<br>Active power +/- 1 %<br>Voltage +/- 0.5 %<br>Power factor +/- 0.01<br>Current +/- 0.5 %<br>Frequency +/- 0.05 %   |
| Measurement current             | 5...6000 mA   |
| Measurement voltage             | 35...480 V AC 50/60 Hz between phases<br>20...277 V AC 50/60 Hz between phase and neutral<br>480...999000 V AC 50/60 Hz with external VT  |
| Frequency measurement range     | 45...65 Hz  |
| [Us] rated supply voltage       | 44...277 V AC 45...65 Hz +/- 10 %<br>44...277 V DC +/- 10 %   |
| Network frequency               | 50 Hz<br>60 Hz  |
| Ride-through time               | 100 ms 120 V AC typical<br>400 ms 230 V AC typical<br>50 ms 125 V DC typical  |
| [In] rated current              | 1 A<br>5 A  |
| Maximum power consumption in VA | 6 VA at 277 V AC  |
| Maximum power consumption in W  | 3.3 W (power lines (AC))<br>2 W at 277 V (power lines (DC))   |
| Input impedance                 | Current (impedance <= 0.3 mOhm)<br>Voltage (impedance > 5 MOhm)   |
| Tamperproof of settings         | Protected by access code  |
| Display type                    | Backlit LCD   |
| Display colour                  | Monochrome  |
| Display resolution              | 128 x 128 pixels  |
| Demand intervals                | Configurable from 1 to 60 min   |
| Information displayed           | Demand current (past value)<br>Demand current (present value)<br>Demand power (past value)<br>Demand power (present value)<br>Voltage<br>Current<br>Frequency<br>Energy consumption<br>Harmonic distortion<br>Power factor<br>Active power<br>Apparent power<br>Reactive power<br>Unbalanced in %<br>Harmonic amplitude |
| Control type                    | 4 x button  |
| Local signalling                | Red LED: output signal 1...9999000 pulse/ k_h (kWh, kVAh, kVARh)<br>Green LED: module operation and integrated communication  |
| Number of inputs                | 0   |
| Number of outputs               | 0   |
| Communication port protocol     | Modbus RTU at 4800 bps, 9600 bps, 19200 bps, 38.4 Kbps even/odd or none - 2 wires, insulation 2500 V  |
| Communication port support      | Screw terminal block: RS485   |
| Data recording                  | Time stamping<br>Min/max for 8 parameters   |
| Function available              | Real time clock   |
| Sampling rate                   | 64 samples/cycle  |
| Cybersecurity                   | Enable/disable communication ports  |
| Communication service           | Remote monitoring   |
| User language                   | Spanish   |

French  
English  
Russian  
Portuguese  
German  
Chinese

|                             |  |
|-----------------------------|--|
| Product certifications      | CE conforming to IEC 61010-1<br>CULus conforming to UL 61010-1<br>CULus conforming to CSA C22.2 No 61010-1<br>RCM<br>EAC<br>C-Tick |
| Mounting mode               | Clip-on  |
| Mounting position           | Vertical   |
| Mounting support            | Framework  |
| Provided equipment          | 1 x installation guide   |
| Measurement category        | Category III 480 V<br>Category II 480...600 V  |
| Electrical insulation class | Double insulation<br>Class II  |
| Flame retardance            | V-0 conforming to UL 94  |
| Connections - terminals     | Current transformer: screw connection (bottom) 6<br>Voltage inputs: screw connection (top) 4                                       |
| Material                    | Polycarbonate  |
| Width                       | 96 mm  |
| Depth                       | 76.09 mm total:<br>61.64 mm embedded:  |
| Height                      | 96 mm  |
| Net weight                  | 300 g  |
| Compatibility code          | PM2220   |

## Environment

|                                       |  |
|---------------------------------------|--|
| Service life                          | 7 year(s)  |
| IP degree of protection               | IP54 front: conforming to IEC 60529<br>IP30 body: conforming to IEC 60529  |
| Relative humidity                     | 5...95 % at 50 °C  |
| Pollution degree                      | 2  |
| Ambient air temperature for operation | -10...60 °C  |
| Ambient air temperature for storage   | -25...70 °C  |
| Operating altitude                    | <= 2000 m  |
| Electromagnetic compatibility         | Electrostatic discharge conforming to IEC 61000-4-2<br>Radiated radio-frequency electromagnetic field immunity test conforming to IEC 61000-4-3<br>Electrical fast transient/burst immunity test conforming to IEC 61000-4-4<br>Surge immunity test conforming to IEC 61000-4-5<br>Conducted RF disturbances conforming to IEC 61000-4-6<br>Magnetic field at power frequency conforming to IEC 61000-4-8<br>Voltage dips and interruptions immunity test conforming to IEC 61000-4-11<br>Emission tests conforming to FCC part 15 class A |
| Overvoltage category                  | III  |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Weight             | 270 g   |
| Package 1 Height             | 8.9 cm  |
| Package 1 width              | 12.2 cm |
| Package 1 Length             | 11.7 cm |
| Unit Type of Package 2       | BB1     |
| Number of Units in Package 2 | 1       |

|                              |         |
|------------------------------|---------|
| Package 2 Weight             | 363 g   |
| Package 2 Height             | 11.5 cm |
| Package 2 width              | 8.7 cm  |
| Package 2 Length             | 12 cm   |
| Unit Type of Package 3       | S03     |
| Number of Units in Package 3 | 18      |
| Package 3 Weight             | 7.02 kg |
| Package 3 Height             | 30 cm   |
| Package 3 width              | 30 cm   |
| Package 3 Length             | 40 cm   |

### Offer Sustainability

|                            |  |
|----------------------------|--|
| Sustainable offer status   | Green Premium product                            |
| REACH Regulation           | <a href="#">REACH Declaration</a>                |
| EU RoHS Directive          | Compliant<br><a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes  |
| RoHS exemption information | <a href="#">Yes</a>                              |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a>           |
| Circularity Profile        | <a href="#">End of Life Information</a>          |