# Product data sheet

Specifications



## EasyLogic PM2130, Power & Energy meter, up to the 31st harmonic, LED display, RS485, class 0.5S

METSEPM2130

**Product availability: Stock - Normally stocked in distribution facility**

## Main

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|---|---|
| **Range** | EasyLogic |
| **Product name** | EasyLogic PM2100 |
| **Product or Component Type** | Power meter |
| **Device short name** | PM2130 |

## Complementary

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|---|---|
| **Device Application** | Sub billing<br>Power monitoring |
| **Power quality analysis** | total harmonic distortion<br>up to the 31st 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** | Peak demand currents<br>Active power P, P1, P2, P3<br>Demand power P, Q, S<br>Reactive power Q, Q1, Q2, Q3<br>Apparent power S, S1, S2, S3<br>Active, reactive, apparent energy (signed, four quadrant)<br>Voltage U, U21, U32, U13, V, V1, V2, V3<br>Current I, I1, I2, I3<br>Calculated neutral current<br>Unbalance current<br>Peak demand power PM, QM, SM |
| **Accuracy class** | Class 1 reactive energy IEC 62053-24<br>Class 0.5S active energy IEC 62053-22<br>Class 5 harmonic distortion (I THD & U THD) |
| **Measurement accuracy** | Apparent power +/- 0.5 %<br>Active energy +/- 0.5 %<br>Reactive energy +/- 1 %<br>Active power +/- 0.5 %<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 |

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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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|---|---|
| **Frequency measurement range** | 45…65 Hz |
| **[Us] rated supply voltage** | 80...277 V AC 45...65 Hz +/- 10 %<br>100...277 V DC +/- 10 % |
| **Network Frequency** | 50 Hz<br>60 Hz |
| **Ride-through time** | 50 ms 120 V AC typical<br>50 ms 230 V AC typical<br>50 ms 125 V DC typical |
| **Line Rated Current** | 1 A<br>5 A |
| **Maximum power consumption in VA** | 8 VA 277 V AC |
| **Maximum power consumption in W** | 3.3 W power lines (AC))<br>3.3 W 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** | 7 segments LED |
| **Display colour** | Red |
| **Messages display capacity** | 3 fields of 4 characters |
| **Display digits** | 12 - 0.6 in (14.2 mm) |
| **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 % |
| **Control type** | 3 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 4800 bps, 9600 bps, 19200 bps, 38.4 Kbps even/odd or none - 2 wires<br>2500 V |
| **Communication port support** | Screw terminal block RS485 |
| **Data recording** | Power logs<br>Time stamping<br>Energy consumption logs<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 |

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| **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** | Class II<br>Double insulation |
| **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** | 3.8 in (96 mm) |
| **Depth** | Total : 3.00 in (76.09 mm)<br>Embedded : 2.43 in (61.64 mm) |
| **Height** | 3.8 in (96 mm) |
| **Product Weight** | 10.6 oz (300 g) |
| **Compatibility code** | PM2130 |

## Environment

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|---|---|
| **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 % 122 °F (50 °C) |
| **Pollution degree** | 2 |
| **Ambient air temperature for operation** | 14…140 °F (-10…60 °C) |
| **Ambient Air Temperature for Storage** | -13…158 °F (-25…70 °C) |
| **Operating altitude** | <= 6561.68 ft (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 |

## Ordering and shipping details

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|---|---|
| **Category** | US10PL109734 |
| **Discount Schedule** | 0PL1 |
| **GTIN** | 3606480800153 |
| **Returnability** | Yes |

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| **Country of origin** | IN |

## Packing Units

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|---|---|
| **Unit Type of Package 1** | PCE |
| **Nbr. of units in pkg.** | 1 |
| **Package 1 Height** | 4.528 in (11.500 cm) |
| **Package 1 Width** | 4.724 in (12.000 cm) |
| **Package 1 Length** | 4.921 in (12.500 cm) |
| **Package weight(Lbs)** | 14.356 oz (407.000 g) |
| **Unit Type of Package 2** | S03 |
| **Number of Units in Package 2** | 18 |
| **Package 2 Height** | 11.811 in (30.000 cm) |
| **Package 2 Width** | 11.811 in (30.000 cm) |
| **Package 2 Length** | 15.748 in (40.000 cm) |
| **Package 2 Weight** | 17.033 lb(US) (7.726 kg) |
| **Unit Type of Package 3** | P06 |
| **Number of Units in Package 3** | 144 |
| **Package 3 Height** | 29.528 in (75.000 cm) |
| **Package 3 Width** | 23.622 in (60.000 cm) |
| **Package 3 Length** | 31.496 in (80.000 cm) |
| **Package 3 Weight** | 158.310 lb(US) (71.808 kg) |

## Contractual warranty

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|---|---|
| **Warranty (in months)** | 18 |

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

### Environmental footprint

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|---|---|
| Total lifecycle Carbon footprint | **157 kg CO2 eq.** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **19 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **0.2 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **0 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **137 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **0.8 kg CO2 eq.** |
| Environmental Disclosure | Product Environmental Profile |

## Use Better

### Materials and Substances

| | |
|---|---|
| Packaging made with recycled cardboard | **Yes** |
| Packaging without single use plastic | **No** |
| SCIP Number | **408f3656-3c4a-4246-a1bc-3e783803af5e** |
| EU RoHS Directive | Compliant By Exemption |
| REACh Regulation | Reference contains Substances of Very High Concern above the threshold |
| California proposition 65 | **WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov** |

## Use Longer

### Lifetime extension

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|---|---|
| Repair | **No** |

## Use Again

### Repack and remanufacture

| | |
|---|---|
| Recyclability potential, in % | **9** |
| Circularity Profile | End of Life Information |
| Take-back | **No** |
| WEEE Label | **The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.** |