Electrical network management

# Schneider Electric

## PM5000 Technical Datasheet

Life Is On | **Schneider** Electric

# PM5000 Series
## Functions and characteristics



PowerLogic™ PM5000 Series meter



PowerLogic™ PM5563 remote dispaly

### PowerLogic™ PM5100, PM5300 and PM5500 series

The PowerLogic™ PM5000 power meter is the ideal fit for cost management applications. Designed for use in both energy management systems and building management systems, it provides the measurement capabilities needed to allocate energy usage, perform tenant metering and sub-billing, pin-point energy savings, optimize equipment efficiency and utilization, and perform a high level assessment of the power quality of the electrical network.

In a single 96 x 96 mm unit, with a graphical display, (plus optional remote display) all three phases, neutral and ground can be monitored simultaneously.
The bright, anti-glare display features large characters and powerful backlighting for easy reading even in extreme lighting conditions and viewing angles. Easy to understand menus, text in 8 selectable languages, icons and graphics create a friendly environment to learn about your electrical network. Ethernet gateway and enhanced cyber security. These are highly accurate devices with global billing certifications.

### Applications

**Cost management:** Cost saving opportunities become clear once you understand how and when your facility uses electricity. The PowerLogic™ PM5000 series meters are ideal for:
■ **Sub-billing / tenant metering:** allows a landlord, property management firm, condominium association, homeowners association, or other multi-tenant property to bill tenants for individual measured utility (electricity) usage. MID approved meters for billing applications across Europe.
■ **Cost allocation:** allocate energy costs between different departments (HVAC, indoor and outdoor lighting, refrigeration, etc.), different parts of an industrial process or different cost centres. Cost allocation systems can help you save money by making changes to your operation, better maintaining your equipment, taking advantage of pricing fluctuations, and managing your demand.

**Network management:** Improving reliability of the electrical network is key for success in any business. Monitoring values such as voltage levels, harmonic distortion and voltage unbalance will help you to ensure proper operation and maintenance of your electrical network and equipment. PowerLogic™ PM5000 series meters are the perfect tool for:
■ **Basic Power Quality monitoring:** power quality phenomena can cause undesirable effects such as heating in transformers, capacitors, motors, generators and misoperation of electronic equipment and protection devices.
■ **Min/ Max monitoring (with timestamp):** understanding when electrical parameters, such as voltage, current and power demand, reach maximum and minimum values will give you the insight to correctly maintain your electrical network and assure equipment will not be damaged.
■ **Alarming:** alarms help you to be aware of any abnormal behaviour on the electrical network in the moment it happens.
■ **WAGES monitoring:** take advantage of the input metering on PM5000 meters to integrate measurements from third party devices such as water, air, gas, electricity or steam, meters.

### Main characteristics

**Easy to install**
Mounts using two clips, in standard cut out for DIN 96 x 96 mm, no tools required. Compact meter with 72 mm  (77 mm for PM5500) depth connectable up to 690 V L-L without voltage transformers for installations compliant with category III. Optional remote display (PM5563). Ethernet gateway functionality via RS-485 port.

**Easy to operate**
Intuitive navigation with self-guided, language selectable menus, six lines, four concurrent values. Two LEDs on the meter face help the user confirm normal operation with a green LED - heartbeat/communications indicator, and the amber LED - customizable either for alarms or energy pulse outputs. Onboard web pages (PM5500) show real-time and logged information, and verify communications.

**Easy circuit breaker monitoring and control**
The PM5300 provides two relay outputs (high performance Form A type) with capability to command most of the circuit breaker coils directly. For Digital Inputs, monitored switches can be wired directly to the meter without external power supply. PM5500 series have 4 status inputs (digital) and 2 digital output (solid state) to use for WAGES monitoring, control and alarm annunciation.

### Accurate energy measurement for precise cost allocation:

|  | PM5100 | PM5300 | PM5500 |
|---|---|---|---|
| IEC 62053-22 (Active Energy) | Class 0.5S | Class 0.5S | Class 0.2S |

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# PM5000 Series
## Functions and characteristics (cont.)



PowerLogic™ PM5500 meter



PowerLogic™ PM5300 meter



PowerLogic™ PM5100 meter

**MID** Certified according to MID Directive, Annex "B" + Annex "D" for legal metrology relevant to active electrical energy meters (see Annex MI-003 of MID). Can be used for fiscal (legal) metrology.

**MID ready compliance, EN 50470-1/3 – Class C**

### Native multi-protocol support

The PM5500 is now easier than ever to integrate into new and existing BMS systems. With native BACnet/IP protocol support, meters can simultaneously communicate via BACnet and Modbus in applications where multiple software systems are used (building management and energy management systems).

The PM5500 series has been tested and certified in accordance with BACnet Testing Laboratories (BTL) requirements.

### Direct metering of neutral current
The PM5500 has a fourth CT for measuring neutral current. In demanding IT applications, where loads are non-linear (i.e. switching power supplies on computers/servers), measuring neutral current is essential to avoid overload and resulting outage. In addition, the PM5500 provides a calculated ground current value, not available in meters with 3 CTs.

### Power Quality analysis
The PM5000 offers Total Harmonic Distortion (THD/thd), Total Demand Distortion (TDD) measurements and individual harmonics (odd) magnitudes and angles for voltage and current:

|  | PM5100 | PM5300 | PM5500 |
|---|---|---|---|
| **Individual Harmonics** | magnitudes up to 15th | magnitudes up to 31st | magnitudes & angles up to 63rd |

These types of power quality parameters help to identify the source of harmonics that can harm transformers, capacitors, generators, motors and electronic equipment.

### Load management
Peak demands with time stamping are provided. Predicted demand values can be used in combination with alarms for basic load shedding applications.

### Alarming with time stamping
A different combination of set point driven alarms and digital alarms with 1s time stamping are available in the PM5000 family:

|  | PM5100 | PM5300 | PM5500 |
|---|---|---|---|
| **Set point driven alarms** | 29 | 29 | 29 |
| **Unary** | 4 | 4 | 4 |
| **Digital** | – | 2 | 4 |
| **Boolean / Logic** | – | – | 10 |
| **Custom defined** | – | – | 5 |

Alarms can be visualized as Active (the ones that have picked up and did not drop out yet) or Historical (the ones that happened in the past). Alarms can be programmed and combined to trigger digital outputs and mechanical relays (PM5300).
The PM5000 series keeps an alarm log with the active and historical alarms with date and time stamping. SMTP protocol for receiving alarm conditions via email and text. SNTP protocol for date/time network synchronization.

### Load timer
A load timer can be set to count load running hours based on a minimum current withdraw, adjustable to monitor and advise maintenance requirements on the load.

### High Performance and accuracy
IEC 61557-12 Performance measuring and monitoring devices (PMD).
Defines the performance expectation based on classes. It defines the allowable error in the class for real and reactive power and energy, frequency, current, voltage, power factor, voltage unbalance, voltage and current harmonics (odds), voltage THD, current THD, as well as ratings for temperature, relative humidity, altitude, start-up current and safety. It makes compliant meters readings comparable - they will measure the same values when connected to the same load.

**Meets IEC 61557-12 PMD/[SD|SS]/K70/0.5 for PM5100 and PM5300**
**Meets IEC 61557-12 PMD/[SD|SS]/K70/0.2 for PM5500**

### Legal billing compliance
MID compliance is compulsory for billing applications across Europe.
In addition to billing applications, for facility managers responsible for energy cost MID means same level of quality as a billing meter.

| General | | PM5100 | PM5300 | PM5500 |
|---|---|---|---|---|
| Use on LV and MV systems | | | ∎ | |
| Basic metering with THD and min/max readings | | | ∎ | |
| **Instantaneous rms values** | | | | |
| Current | per phase, neutral and ground (PM5500) | | ∎ | |
| Voltage | Total, per phase L-L and L-N | | ∎ | |
| Frequency | | | ∎ | |
| Real, reactive, and apparent power | Total and per phase | | Signed, Four Quadrant | |
| True Power Factor | Total and per phase | | Signed, Four Quadrant | |
| Displacement PF | Total and per phase | | Signed, Four Quadrant | |
| % Unbalanced I, V L-N, V L-L | | | ∎ | |
| Direct monitoring of neutral current | | | | ∎ |
| **Energy values★** | | | | |
| Accumulated Active, Reactive and Apparent Energy | | | Received/Delivered; Net and absolute; Time Counters | |
| **Demand values★** | | | | |
| Current average | | | Present, Last, Predicted, Peak, and Peak Date Time | |
| Active power | | | Present, Last, Predicted, Peak, and Peak Date Time | |
| Reactive power | | | Present, Last, Predicted, Peak, and Peak Date Time | |
| Apparent power | | | Present, Last, Predicted, Peak, and Peak Date Time | |
| Peak demand with time stamping D/T for current and powers | | | ∎ | |
| Demand calculation | Sliding, fixed and rolling block, thermal methods | | ∎ | |
| Synchronization of the measurement window to input, communication command or internal clock | | | ∎ | |
| Settable Demand intervals | | | ∎ | |
| Demand calculation for Pulse input (WAGES) | | | | ∎ |
| **Other measurements★** | | | | |
| I/O timer | | | ∎ | |
| Operating timer | | | ∎ | |
| Load timer | | | ∎ | |
| Alarm counters and alarm logs | | | ∎ | |
| **Power quality measurements** | | | | |
| THD, thd (Total Harmonic Distortion) I, V L-N, V L-L per phase | | | I,V L-N, V L-L | |
| TDD (Total Demand Distortion) | | | ∎ | |
| Individual harmonics (odds) | | 15th | 31st | 63rd |
| Neutral Current metering with ground current calculation | | | | ∎ |
| **Data recording** | | | | |
| Min/max of instantaneous values, plus phase identification* | | | ∎ | |
| Alarms with 1s timestamping★ | | | ∎ | |
| Data logging | | | 2 selectable parameters from kWh, kVAh, kVARh with configurable interval and duration (e.g. 2 parameters for 60 days at 15 minutes interval) | Up to 14 selectable parameters with configurable interval and duration (e.g 6 parameters for 90 days at 15 minutes interval) |
| Memory capacity | | | 256 kB | 1.1 MB |
| Min/max log | | ∎ | ∎ | ∎ |
| Maintenance, alarm and event logs | | | ∎ | ∎ |
| Customizable data logs | | | | ∎ |
| **Inputs / Outputs / Mechanical Relays** | | | | |
| Digital inputs | | | 2 | 4 |
| Digital outputs | | 1 (kWh only) | 2 (configurable) | |
| Form A Relay outputs | | | 2 | |
| Timestamp resolution in seconds | | | 1 | |
| Whetting voltage | | | ∎ | |

★ *Stored in non-volatile memory*

# PM5000 Series
## Functions and characteristics (cont.)

| Electrical characteristics | | | PM5100 | PM5300 | PM5500 |
|---|---|---|---|---|---|
| Type of measurement: True rms on three-phase (3P, 3P + N), zero blind | | | 64 samples per cycle | | 128 samples per cycle |
| Measurement accuracy | Active Energy | | 0.5 % | | 0.2 % |
| | Reactive Energy | | 2 % | | 1 % |
| | Active Power | | 0.5 % | | 0.2 % |
| | Apparent Power | | 0.5 % | | |
| | Current, Phase | | 0.5 % | | 0.15 % |
| | Voltage, L-N | | 0.5 % | | 0.1 % |
| | Frequency | | 0.05 % | | |
| Measurement accuracy compliance | Measurement accuracy | | IEC 61557-12 PMD/[SD\|SS]/K70/0.5 | | IEC 61557-12 PMD/[SD\|SS]/ K70/0.2 |
| | Active energy accuracy | | IEC 62053-22 Class 0.2 S ANSI C12.20 Class 0.5 | | IEC 62053-22 Class 0.2 S ANSI C12.20 Class 0.2 |
| | Reactive energy accuracy | | IEC 62053-23 Class 2 | | |
| Input-voltage (up to 1.0 MV AC max, with voltage transformer) | Nominal Measured Voltage range | | 20 V L-N / 35 V L-L to 400 V L-N /690 V L-L absolute range 35 V L-L to 760 V L-L | | 20 V L-N / 20 V L-L to 400 V L-N /690 V L-L absolute range 20 V L-L to 828 V L-L |
| | Impedance | | 5 M Ω | | |
| | F nom | | 50 or 60 Hz ±2 % | | 50 or 60 Hz ±10 % |
| Input-current | I nom | | 1 A or 5 A | | |
| | Measured Amps with over range and Crest Factor | | Starting current: 5 mA Operating range: 50 mA to 8.5 A | | Starting current: 5 mA Operating range: 50 mA to 10 A |
| | Withstand | | Continuous 20 A, 10s/hr 50 A, 1s/hr 500 A | | |
| | Impedance | | < 0.3 mΩ | | |
| | F nom | | 50 or 60 Hz ±2 % | | 50 or 60 Hz ±10 % |
| | Burden | | <0.026 VA at 8.5 A | | < 0.024 VA at 10 A |
| AC control power | Operating range | | 100-415 V AC +/- 10 % CAT III 300V class per IEC 61010 | | 100-480 V AC ±10 % CAT III 600V class per IEC 61010 |
| | Burden | | <5 W,11 VA at 415 V L-L | | <5W/16.0 VA at 480 V AC |
| | Frequency | | 45 to 65 Hz | | |
| | Ride-through time | | 80 mS typical at 120 V AC and maximum burden 100 mS typical at 230 V AC and maximum burden 100 mS typical at 415 V AC and maximum burden | | 35 ms typical at 120 V L-N and maximum burden 129 ms typical at 230 V L-N and maximum burden |
| DC control power | Operating range | | 125-250 V DC ±20 % | | |
| | Burden | | 4 W max at 125 V DC | | typical 3.1 W at 125 V DC, max. 5 W |
| | Ride-through time | | 50 mS typical at 125 V DC and maximum burden | | |
| Outputs | Relay | Max output frequency | | 0.5 Hz maximum (1 second ON / 1 second OFF - minimum times) | |
| | | Switching current | | 250 V AC at 8.0 Amps, 25 k cycles, resistive 30 V DC at 2.0 Amps, 75 k cycles, resistive 30 V DC at 5.0 Amps, 12.5 k cycles, resistive | |
| | | Isolation | | 2.5 kV rms | |
| | Digital outputs | | 1 | 2 | 2 |
| | | Max load voltage | 40 V DC | | 30 V AC / 60 V DC |
| | | Max load current | 20 mA | | 125 mA |
| | | On Resistance | 50 Ω max | | 8 Ω |
| | | Meter constant | from 1 to 9,999,999 pulses per kWh k_h (Configurable for delivered or received or delivered+received energy for kWh or kVARh or kVAh) | | |
| | | Pulse width for Digital Output | 50% duty cycle | | |
| | | Pulse frequency for Digital Output | 25 Hz max. | | |
| | | Leakage current | 0.03 micro Amps | | 1 micro Amps |
| | | Isolation | 5 kV rms | | 2.5 kV rms |
| | Optical outputs | | | | |
| | | Pulse width (LED) | 200 micro seconds | | |
| | | Pulse frequency | 50 Hz. max. | | 2.5 kHz. max |
| | | Meter constant | from 1 to 9,999,999 pulses per kWh k_h (Configurable for delivered or received or delivered+received energy for kWh or kVARh or kVAh) | | |

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# PM5000 Series
## Functions and characteristics (cont.)

| Electrical characteristics (cont'd) | | PM5100 | PM5300 | PM5500 |
|---|---|---|---|---|
| Status Inputs | ON Voltage | | 18.5 to 36 V DC | 30 V AC / 60 V DC max |
| | OFF Voltage | | 0 to 4 V DC | |
| | Input Resistance | | 110 k Ω | 100 k Ω |
| | Maximum Frequency | | 2 Hz (T ON min = T OFF min = 250 ms) | 25 Hz (T ON min = T OFF min = 20 ms) |
| | Response Time | | 20 ms | 10 ms |
| | Opto Isolation | | 5 kV rms | 2.5 kV rms |
| | Whetting output | | 24 V DC/ 8 mA max | |
| | Input Burden | | 2 mA @ 24 V DC | 2 mA @ 24 V AC/DC |
| **Mechanical characteristics** | | | | |
| Product weight | | 380 g | 430 g | 450 g |
| IP degree of protection (IEC 60529) | | IP52 front display, IP20 meter body | | |
| Dimensions W x H x D [protrusion from cabinet] ★ | | 96 x 96 x 72 mm (77 mm for PM5500) (depth of meter from housing mounting flange) [13 mm] | | |
| Mounting position ★ | | Vertical | | |
| Panel thickness | | 6 mm maximum | | |
| **Environmental characteristics** | | | | |
| Operating temperature | Meter | -25 °C to 70 °C | | |
| | Display (Display functions to -25º with reduced performance) | -25 °C to 70 °C | | |
| Storage temp. | | -40 °C to 85 °C | | |
| Humidity range | | 5 % to 95 % RH at 37 °C (non-condensing) | | |
| Polution degree | | 2 | | |
| Altitude | | 2000 m CAT III / 3000 m CAT II | | 3000 m max. CAT III |
| **Electromagnetic compatibility★★** | | | | |
| Harmonic current emissions | | IEC 61000-3-2 | | |
| Flicker emissions | | IEC 61000-3-3 | | |
| Electrostatic discharge | | IEC 61000-4-2 | | |
| Immunity to radiated fields | | IEC 61000-4-3 | | |
| Immunity to fast transients | | IEC 61000-4-4 | | |
| Immunity to surge | | IEC 61000-4-5 | | |
| Conducted immunity  150kHz to 80MHz | | IEC 61000-4-6 | | |
| Immunity to magnetic fields | | IEC 61000-4-8 | | |
| Immunity to voltage dips | | IEC 61000-4-11 | | |
| Radiated emissions | | FCC part 15, EN 55022  Class B | | |
| Conducted emissions | | FCC part 15, EN 55022  Class B | | |

★ PM5563 is DIN mounted

★★ Tests are conducted as per IEC 61557-12 (IEC 61326-1), 62052-11 and EN 50470

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| Safety | PM5100 | PM5300 | PM5500 |
|---|---|---|---|
| Europe | CE, as per IEC 61010-1 Ed. 3, IEC 62052-11 & IEC 61557-12 | | |
| U.S. and Canada | cULus as per UL61010-1 (3rd Edition) | | |
| Measurement category (Voltage and Current inputs) | CAT III up to 400 V L-N / 690 V L-L | | |
| Dielectric | As per IEC/UL 61010-1 Ed. 3 | | |
| Protective Class | II, Double insulated for user accessible parts | | |
| **Communication** | | | |
| RS-485 port Modbus RTU, Modbus ASCII (7 or 8 bit), JBUS | 2-Wire, 9600,19200 or 38400 baud, Parity - Even, Odd, None, 1 stop bit if parity Odd or Even, 2 stop bits if None; (Optional in PM51x and PM53x) | | |
| Ethernet port: 10/100 Mbps; Modbus TCP/IP | | 1 Optional | 2 (for daisy chain only, one IP address); BACnet/IP |
| Firmware and language file update | Meter firmware update via the communication ports | | |
| Isolation | 2.5 kVrms, double insulated | | |
| **Human machine interface** | | | |
| Display type | Monochrome Graphics LCD | | |
| Resolution | 128 x 128 | | |
| Backlight | White LED | | |
| Viewable area (W x H) | 67 x 62.5 mm | | |
| Keypad | 4-button | | |
| Indicator Heartbeat / Comm activity | Green LED | | |
| Energy pulse output / Active alarm indication (configurable) | Optical, amber LED | | |
|     Wavelength | 590 to 635 nm | | |
|     Maximum pulse rate | 2.5 kHz | | |

| | PM5100 | | PM5300 | | | | PM5500 | |
|---|---|---|---|---|---|---|---|---|
| **Features and Options** | PM5100 | PM5110 | PM5310 | PM5320 | PM5330 | PM5340 | PM5560 | PM5563 |
| **Installation** | | | | | | | | |
| Fast panel mount with integrated display | ■ | ■ | ■ | ■ | ■ | ■ | ■ | – |
| Remote display (optional) | – | – | – | – | – | – | – | ■ |
| Fast installation, DIN rail mountable | – | – | – | – | – | – | – | ■ |
| **Accuracy** | CI 0.5S | CI 0.5S | CI 0.5S | CI 0.5S | CI 0.5S | CI 0.5S | CI 0.2S | CI 0.2S |
| **Display** | | | | | | | | |
| Backlit LCD, multilingual, bar graphs, 6 lines, 4 concurrent values | ■ | ■ | ■ | ■ | ■ | ■ | ■ | – |
| **Power and energy metering** | | | | | | | | |
| 3-phase voltage, current, power, demand, energy, frequency, power factor | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Multi-tariff | – | – | 4 | 4 | 4 | 4 | 8 | 8 |
| **Power quality analysis** | | | | | | | | |
| THD, thd, TDD | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Harmonics, individual (odd) up to | 15th | 15th | 31st | 31st | 31st | 31st | 63rd | 63rd |
| **I/Os and relays** | | | | | | | | |
| I/Os | 1DO | 1DO | 2DI/2DO | 2DI/2DO | 2DI/2DO | 2DI/2DO | 4DI/2DO | 4DI/2DO |
| Relays | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 |
| **Alarms and control** | | | | | | | | |
| Alarms | 33 | 33 | 35 | 35 | 35 | 35 | 52 | 52 |
| Set point response time, seconds | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Single and multicondition alarms | – | – | ■ | ■ | ■ | ■ | ■ | ■ |
| Boolean alarm logic | – | – | – | – | – | – | ■ | ■ |
| **Communications** | | | | | | | | |
| Serial ports with Modbus protocol | – | 1 | 1 | – | 1 | – | 1 | 1 |
| Ethernet port with Modbus TCP protocol | – | – | – | 1 | – | 1 | 2★★ | 2★★ |
| Ethernet port with BACnet/IP protocol★ | – | – | – | – | – | – | 2★★ | 2★★ |
| Ethernet-to-serial gateway | – | – | – | – | – | – | ■ | ■ |
| Onboard web server with web pages | – | – | – | – | – | – | ■ | ■ |
| **MID ready compliance, EN50470-1/3, Annex B and Annex D Class C** | PM5111 | | | PM5331 | PM5341 | | PM5561 | |

★ PM5300 series models with BACnet/IP coming soon. Ability to simultaneously communicate via Modbus TCP/IP and BACnet/IP.
★★ 2 Ethernet ports for daisy chain, one IP address. One IP address. Ability to simultaneously communicate via Modbus TCP/IP and BACnet/IP.
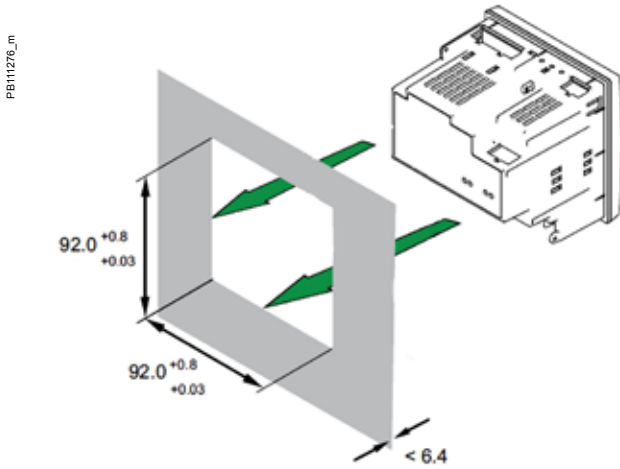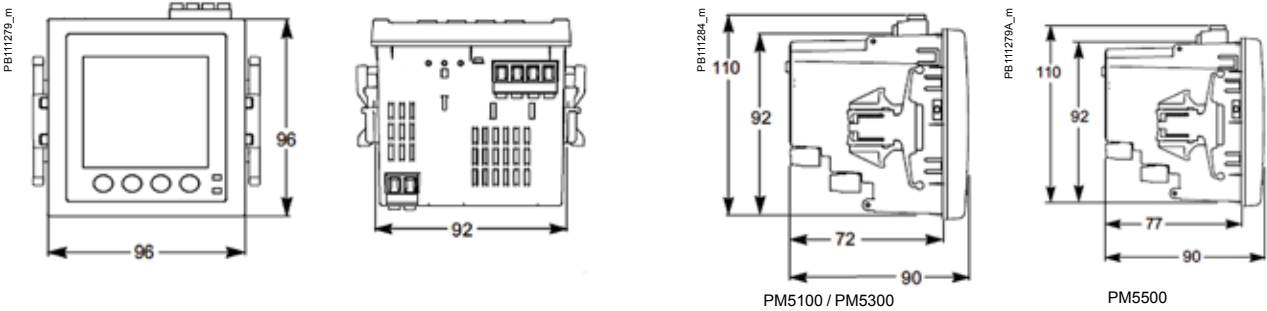
# PM5000 Series
## Dimensions and connection

| Commercial reference numbers | |
|---|---|
| **Part description** | **Commercial ref. no.** |
| PM5100 power meter, pulse out | **METSEPM5100** |
| PM5100 power meter, pulse + serial out | **METSEPM5110** |
| PM5100 power meter, pulse + serial out, MID | **METSEPM5111** |
| PM5300 power meter, serial + 2DI-2DO out | **METSEPM5310** |
| PM5300 power meter, ETH + 2DI-2DO out | **METSEPM5320** |
| PM5300 power meter, serial + 2DI-2DO-2relay out | **METSEPM5330** |
| PM5300 power meter, serial + 2DI-2DO-2relay out, MID | **METSEPM5331** |
| PM5300 power meter, ETH + 2DI-2DO-2relay out | **METSEPM5340** |
| PM5300 power meter, ETH + 2DI-2DO-2relay out, MID | **METSEPM5341** |
| PM5560 power meter, ETH-serial + 4DI-2DO out | **METSEPM5560** |
| PM5561 power meter, ETH-serial + 4DI-2DO out, MID | **METSEPM5561** |
| PM5563 power meter, ETH-serial + 4DI-2DO out, no disp | **METSEPM5563**[1] |
| PM5500 power meter, ETH-serial + 4DI-2DO out, remote display | **METSEPM5563RD**[1] |
| Remote display for PM5563 power meter | **METSEPM5RD**[1] |
| Hardware kit for PM51XX (voltage, current, comms & IO connectors + moulding clips) | **METSEPM51HK** |
| Hardware kit for PM53XX (voltage, current, comms & IO connectors + moulding clips) | **METSEPM53HK** |
| Revenue sealing kit for PM51XX & PM53XX (sealing covers for voltage & current connectors) | **METSEPM51-3RSK** |
| Hardware kit for PM55XX (voltage, current, comms & IO connectors & moulding clips) | **METSEPM55HK** |
| Revenue sealing kit for PM55XX (sealing covers for voltage & current connectors) | **METSEPM55RSK** |

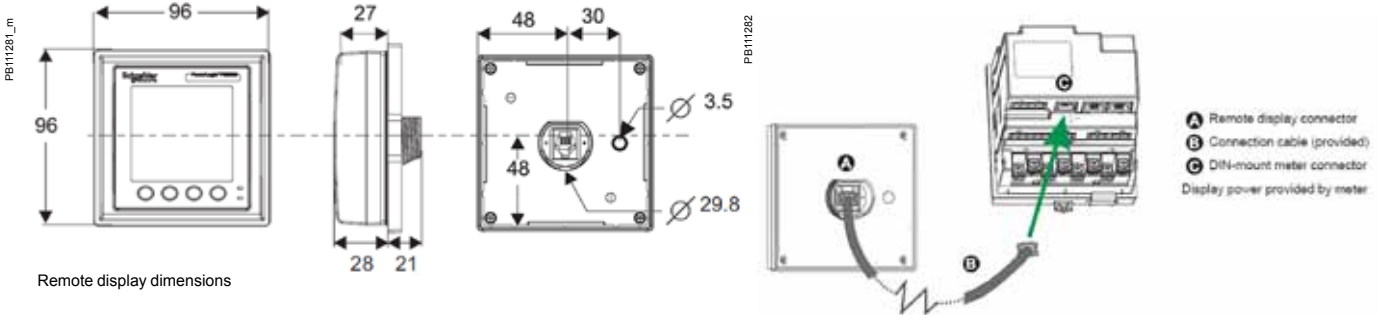[1] METSEPM5563RD includes both METSEPM5563 and METSEPM5RD

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## PM5000 Series meter flush mounting*

92.0 +0.8 +0.03

92.0 +0.8 +0.03

< 6.4

## PM5000 Series meter dimensions

96

96

92

110

92

72

90

**PM5100 / PM5300**

110

92

77

90

**PM5500**

## PM5000 Series remote display dimensions
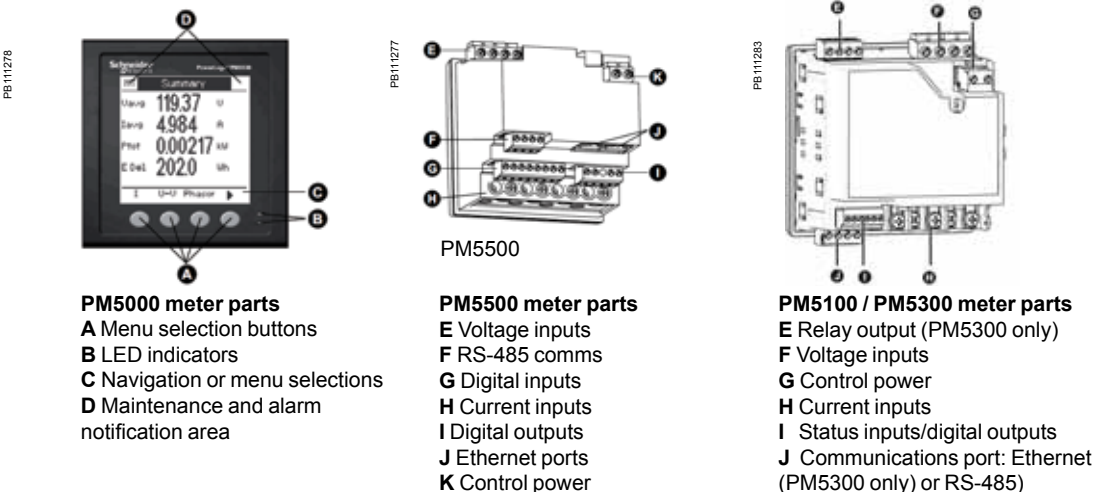
96

27

48

30

96

48

28  21

⌀ 3.5

⌀ 29.8

Remote display dimensions

Ⓐ Remote display connector
Ⓑ Connection cable (provided)
Ⓒ DIN-mount meter connector
Display power provided by meter

## PM5000 Series meter parts

PM5500

**PM5000 meter parts**
**A** Menu selection buttons
**B** LED indicators
**C** Navigation or menu selections
**D** Maintenance and alarm
notification area

**PM5500 meter parts**
**E** Voltage inputs
**F** RS-485 comms
**G** Digital inputs
**H** Current inputs
**I** Digital outputs
**J** Ethernet ports
**K** Control power

**PM5100 / PM5300 meter parts**
**E** Relay output (PM5300 only)
**F** Voltage inputs
**G** Control power
**H** Current inputs
**I** Status inputs/digital outputs
**J** Communications port: Ethernet
(PM5300 only) or RS-485)

**Product name**
**PLSED310052EN**

As standards, specifications and designs develop from time to time, please ask
for confirmation of the information given in this document.

Design: Schneider Electric
Photos: Schneider Electric

Over 75 % of Schneider Electric products
have been awarded the Green Premium ecolabel

Green
Premium™
Product

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