

# PM5350P series

## Technical Data Sheet

The PowerLogic PM5350P series power meters are the new benchmark in affordable, precision metering.

The PowerLogic PM5350P power meter offers all the measurement capabilities required to monitor an electrical installation in a space-efficient, single 96 x 96 mm unit.

### Applications

- Panel instrumentation
- Cost allocation or energy management
- Electrical installation remote monitoring
- Sophisticated alarming
- Circuit Breaker monitoring and control



PB117510

### The solution for

Markets that can benefit from a solution that includes PowerLogic PM5350P series meters:

- Buildings
- Industry
- Healthcare
- Data Centre and networks
- Infrastructure

### Benefits

#### System integrators' benefit

- Ease of integration
- Ease of setup
- Cost effectiveness

#### Panel builders' benefit

- Ease of installation
- Cost effectiveness
- Aesthetically pleasing
- Simplified ordering

#### End users' benefit

- Ease of use
- Precision metering & sub-billing
- Billing flexibility
- Comprehensive, consistent and superior performance

### Competitive advantages

- Easy to install and operate
- Easy for circuit breaker monitoring and control
- Power quality analysis
- Load management combined with alarm and timestamping
- High performance and accuracy
- Multi-tariff capabilities
- Individual harmonics up to 31st

### Power management solutions

Schneider Electric provides innovative power management solutions to increase your energy efficiency and cost savings, maximise electrical network reliability and availability, and optimise electrical asset performance.

### Conformity of standards

- IEC 62053-22
- IEC 61326-1
- IEC 61557-12
- UL 61010-1
- IEC 62053-23
- IEC 61000-3-3
- IEC 61010-1

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PowerLogic PM5350P

The PowerLogic PM5350P power meter offers electrical installation measurement capabilities in a single 96 x 96 mm unit. Three-phases and neutral can be monitored simultaneously using a bright, anti-glare display with large characters and backlighting. Menus are intuitive and the meter supports English, Chinese, Hebrew, and Spanish. Its compact size and high performance make the PowerLogic PM5350P suitable for many applications.

- Applications

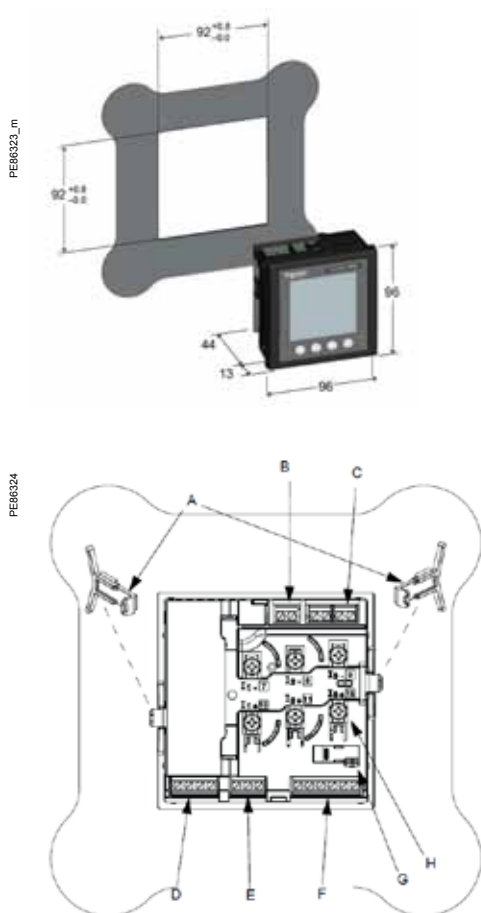
- Panel instrumentation.
- Cost allocation or energy management.
- Electrical installation remote monitoring.
- Alarming with under/over, digital status, control power failure, meter reset, self diagnostic issue.
- Circuit Breaker monitoring and control with relay outputs and whetted digital inputs.

- Main characteristics

- Easy to install
  - Mounts using two clips, no tools required. Ultra compact meter with 44 mm depth connectable up to 480 V L-L without voltage transformers for installations compliant with category III, as per IEC 61010-1. See specification table for UL voltage limits.
- Easy to operate
  - Intuitive navigation with self-guided, language selectable menus, six lines, four concurrent values. Two LEDs help confirm normal operation.
- Easy circuit breaker monitoring and control
  - Two relay outputs (high performance) to command most circuit breaker coils directly. Monitored switches can be wired directly without external power supply.
- System status at a glance
  - Bright, anti-glare, backlit display plus two LEDs; orange for energy pulse or alarm and green for heartbeat/communications indication.
- IEC 62053-22 class 0.5S accuracy for active energy
  - Accurate energy measurement for cost allocation.
- Power Quality analysis
  - The PM5350P offers THD and TDD measurements as standard. Total Demand Distortion is based on a point of common coupling (PCC), which is a common point that each user receives power from the power source. The TDD compares the contribution of harmonics versus the maximum demand load. In addition, it has individual harmonics (odd) measurement up to 31st harmonics. 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 Timestamping are provided. Predicted demand values can be used in basic load shedding applications. Alarming with timestamping
- Over 30 alarm conditions, such as under/over conditions, digital input changes, and phase unbalance inform you of events. A time-stamped log maintains a record of the last 40 alarm events.
- Load timer setpoint adjustable to monitor and advise maintenance requirements.
- Performance Standard Meets IEC 61557-12 PMD/Sx/K70/0.5.



### PM5350P meter parts

- A** Retainer clips.
- B** Control power supply connector.
- C** Voltage inputs.
- D** Digital outputs.
- E** RS-485 port (COM1).
- F** Digital inputs.
- G** Optical revenue switch.
- H** Current inputs.

| Feature guide                                                                                                                                                    |                                           | PM5350P                                          |                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------------------------|-------------------------------|
| General                                                                                                                                                          |                                           |                                                  |                               |
| Use on LV and MV systems                                                                                                                                         |                                           | ■                                                |                               |
| Basic metering with THD and min/max readings                                                                                                                     |                                           | ■                                                |                               |
| Instantaneous rms values                                                                                                                                         |                                           |                                                  |                               |
| Current                                                                                                                                                          | Total, Phases and neutral                 | ■                                                |                               |
| Voltage                                                                                                                                                          | Total, Ph-Ph and Ph-N                     | ■                                                |                               |
| Frequency                                                                                                                                                        |                                           | ■                                                |                               |
| Real, reactive, and apparent power                                                                                                                               | Total and per phase                       | Signed                                           |                               |
| True Power Factor                                                                                                                                                | Total and per phase                       | Signed, Four Quadrant                            |                               |
| Displacement PF                                                                                                                                                  | Total and per phase                       | Signed, Four Quadrant                            |                               |
| Unbalanced I, VL-N, VL-L                                                                                                                                         |                                           | ■                                                |                               |
| Energy values                                                                                                                                                    |                                           |                                                  | Stored in non-volatile memory |
| Accumulated Active, Reactive and Apparent Energy                                                                                                                 |                                           | Received/Delivered; Net and absolute;            | ■                             |
| Demand values                                                                                                                                                    |                                           |                                                  |                               |
| Current average                                                                                                                                                  |                                           | Present, Last, Predicted, Peak, & Peak Date Time | ■                             |
| Active power                                                                                                                                                     |                                           | Present, Last, Predicted, Peak, & Peak Date Time | ■                             |
| Reactive power                                                                                                                                                   |                                           | Present, Last, Predicted, Peak, & Peak Date Time | ■                             |
| Apparent power                                                                                                                                                   |                                           | Present, Last, Predicted, Peak, & Peak Date Time | ■                             |
| Multi-tariff                                                                                                                                                     |                                           | 4 tariffs                                        | ■                             |
| Peak demand with timestamping D/T for current & powers                                                                                                           |                                           | ■                                                | ■                             |
| Demand calculation                                                                                                                                               | Sliding, fixed and rolling block, thermal | ■                                                | ■                             |
| Synchronization of the measurement window                                                                                                                        |                                           | ■                                                | ■                             |
| Other measurements                                                                                                                                               |                                           |                                                  |                               |
| I/O timer                                                                                                                                                        |                                           | ■                                                | ■                             |
| Operating timer                                                                                                                                                  |                                           | ■                                                | ■                             |
| Active load timer                                                                                                                                                |                                           | ■                                                | ■                             |
| Alarm counters                                                                                                                                                   |                                           | ■                                                | ■                             |
| Power quality measurements                                                                                                                                       |                                           |                                                  |                               |
| THD, thd (Total Harmonic Distortion)                                                                                                                             |                                           | I, V L-N, V L-L                                  |                               |
| TDD, thd (Total Demand Distortion)                                                                                                                               |                                           | ■                                                |                               |
| Harmonics Individual (Odd)                                                                                                                                       |                                           | 31st                                             |                               |
| Data recording                                                                                                                                                   |                                           |                                                  |                               |
| Min/max of instantaneous values, plus phase identification                                                                                                       |                                           | ■                                                | ■                             |
| Alarms with 1s timestamping                                                                                                                                      |                                           | Standard 29; Unary 4; Digital 4                  |                               |
| Alarms stored in non-volatile memory                                                                                                                             |                                           | 40 events                                        | ■                             |
| Inputs/Outputs                                                                                                                                                   |                                           |                                                  |                               |
| Digital inputs                                                                                                                                                   |                                           | 4 (DI1, DI2, DI3, DI4)                           |                               |
| Digital outputs                                                                                                                                                  |                                           | 2 relay outputs (DO1, DO2)                       |                               |
| Display                                                                                                                                                          |                                           |                                                  |                               |
| White backlit LCD display, 6 lines, 4 concurrent values                                                                                                          |                                           | ■                                                |                               |
| IEC or IEEE visualization mode                                                                                                                                   |                                           | ■                                                |                               |
| Communication                                                                                                                                                    |                                           |                                                  |                               |
| Modbus RTU, Modbus ASCII, Jbus Protocol                                                                                                                          |                                           | ■                                                |                               |
| Firmware update via RS-485 serial port (DLF3000 via the Schneider Electric website: <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> ) |                                           | ■                                                |                               |



PowerLogic PM5350P front display

| Electrical characteristics                                                                                                                                                                                                      |                                                                                                             |                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type of measurement                                                                                                                                                                                                             | RMS including harmonics upto 31st on three-phase AC system (3P, 3P + N)<br>64 samples per cycle, zero blind |                                                                                                                                                                                                                                                                                            |
| Measurement accuracy                                                                                                                                                                                                            | Active Energy                                                                                               | Class 0.5S as per IEC 62053-22 up to 9A<br>Class 0.5 as per IEC 61557-12 up to 9A<br>For 5 A nominal CT (for 1 A nominal CT when I > 0.15 A)                                                                                                                                               |
|                                                                                                                                                                                                                                 | Reactive Energy                                                                                             | Class 2 as per IEC 62053-23 up to 9 A<br>Class 2 as per IEC 61557-12 up to 9 A<br>For 5 A nominal CT (for 1 A nominal CT when I > 0.15 A)                                                                                                                                                  |
|                                                                                                                                                                                                                                 | Active Power                                                                                                | Class 0.5 as per IEC 61557-12 upto 9A<br>For 5 A nominal CT (for 1 A nominal CT when I > 0.15 A)                                                                                                                                                                                           |
|                                                                                                                                                                                                                                 | Frequency★                                                                                                  | ±0.05 %                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                 | Current, Phase★                                                                                             | ±0.5 %                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                 | Voltage, L-N★                                                                                               | ±0.50 %                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                 | Power Factor★                                                                                               | ±0.01 Count                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                 | Voltage Harmonics                                                                                           | Class 5 as per 61557-12 ★ ★                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                 | Voltage THD/thd                                                                                             | Class 5 as per 61557-12 ★ ★                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                 | Current Harmonics                                                                                           | Class 5 as per 61557-12 ★ ★                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                 | Current THD/ thd                                                                                            | Class 5 as per 61557-12 ★ ★                                                                                                                                                                                                                                                                |
| ★ Measurement applicable from 45 Hz to 65 Hz , 0.5 A to 9 A , 57 V to 347V and 0.5 Inductive , 0.5 capacitive power factor With a sinusoidal wave<br>★ ★ Accuracy applicable up to 15th Harmonics measured up to 31st Harmonics |                                                                                                             |                                                                                                                                                                                                                                                                                            |
| Data update rate                                                                                                                                                                                                                | 1 second nominal (50/60 cycles)                                                                             |                                                                                                                                                                                                                                                                                            |
| Input voltage                                                                                                                                                                                                                   | U nom                                                                                                       | 277 V L-N                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                 | Measured voltage with overrange & Crest Factor                                                              | Per IEC 61010-1<br>CAT III, 20-277 V L-N / 20-480 V L-L<br>CAT II, 20-400 V L-N / 20-690 V L-L<br>Per UL 61010-1 and CSA C22.2 NO. 61010-1<br>CAT III, 20-300 V L-L AC                                                                                                                     |
|                                                                                                                                                                                                                                 | Permanent overload                                                                                          | 700 V AC L-L, 404 V AC L-N                                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                 | Impedance                                                                                                   | 5 MΩ                                                                                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                 | Frequency range                                                                                             | 45 to 65 Hz                                                                                                                                                                                                                                                                                |
| Input-current                                                                                                                                                                                                                   | CT ratings Secondary                                                                                        | 1 A, 5 A nominal                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                 | Measured voltage with overrange & Crest Factor                                                              | 5 mA to 9 A                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                 | Withstand                                                                                                   | Continuous 20 A, 10 sec/hr 50 A, 1 sec/hr 500 A                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                 | Impedance                                                                                                   | < 0.3 MΩ                                                                                                                                                                                                                                                                                   |
|                                                                                                                                                                                                                                 | Frequency range                                                                                             | 45 to 65 Hz                                                                                                                                                                                                                                                                                |
| AC control power                                                                                                                                                                                                                | Burden                                                                                                      | < 0.024 V A at 9 A                                                                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                 | Operating range                                                                                             | 85 - 265 V AC                                                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                 | Burden                                                                                                      | 7 VA / 4W maximum at 120 V AC, 9 VA / 5W maximum at 230 V AC, 11.9 VA / 5W maximum at 265 V AC                                                                                                                                                                                             |
|                                                                                                                                                                                                                                 | Frequency                                                                                                   | 45 to 65 Hz                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                 | Ride-through time                                                                                           | 40 mS typical at 120 V AC and maximum burden<br>250 mS typical at 230 V AC and maximum burden                                                                                                                                                                                              |
| DC control power                                                                                                                                                                                                                | Operating range                                                                                             | 100 to 300 V DC                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                 | Burden                                                                                                      | 4 W maximum at 125 V DC, 5 W maximum at 250 V DC, 5 W maximum at 300 V DC                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                 | Ride-through time                                                                                           | 30 mS typical at 125 V DC and maximum burden                                                                                                                                                                                                                                               |
| Real time clock                                                                                                                                                                                                                 | Clock drift                                                                                                 | ~0.5 seconds per day                                                                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                 | Battery Backup time                                                                                         | 3 years without control power                                                                                                                                                                                                                                                              |
| Digital output                                                                                                                                                                                                                  | Number/Type                                                                                                 | 2 - Mechanical Relays                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                 | Output frequency                                                                                            | 0.5 Hz maximum (1 second ON / 1 second OFF - minimum times)                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                 | Switching Current                                                                                           | 250 V AC at 2.0 Amps, 200k cycles, resistive<br>250 V AC at 8.0 Amps, 25k cycles, resistive<br>250 V AC at 2.0 Amps, 50k cycles, COSΦ=0.4<br>30 V DC at 2.0 Amps, 75k cycles, resistive<br>30 V DC at 5.0 Amps, 12.5k cycles, resistive<br>NOTE: The COSΦ ratings are not evaluated for UL |
|                                                                                                                                                                                                                                 | Isolation                                                                                                   | 2.5 kVrms                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                 | Isolation                                                                                                   | 2.5 kVrms                                                                                                                                                                                                                                                                                  |
| Status Digital Inputs                                                                                                                                                                                                           | Voltage ratings                                                                                             | ON 18.5 to 36 V DC, OFF 0 to 4 V DC                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                 | Input Resistance                                                                                            | 110 k Ω                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                 | Maximum Frequency                                                                                           | 2 Hz (T ON min = T OFF min = 250 ms)                                                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                 | Response Time                                                                                               | 10 ms                                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                 | Isolation                                                                                                   | 2.5 kVrms                                                                                                                                                                                                                                                                                  |
| Whetting output                                                                                                                                                                                                                 | Nominal voltage                                                                                             | 24 V DC                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                 | Allowable load                                                                                              | 4 mA                                                                                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                 | Isolation                                                                                                   | 2.5 kVrms                                                                                                                                                                                                                                                                                  |



Rear view of PowerLogic PM5350P

### Feature selection

| Commercial reference number | Description                                                          |
|-----------------------------|----------------------------------------------------------------------|
| METSEPM5350                 | RS-485 Modbus, THD, 4DI, 2Relay                                      |
|                             | RS-485, 4DI/2Relay, Multi-level alarm, UL480V, 4DI/2Relay            |
|                             | RS-485, 4DI/2Relay, Multi-level alarm, UL300V, 4DI/2Relay            |
| METSEPM5350P                | RS-485 Modbus, THD, Multi-tariff and individual harmonics 4DI/2Relay |
| METSEPM5100                 | No communication, 1DO                                                |
| METSEPM5110                 | RS-485 Modbus, 1DO                                                   |
| METSEPM5111                 | RS-485 ModBus, 1DO, MID certified                                    |
| METSEPM5310                 | RS-485 Modbus, 2DI/2DO                                               |
| METSEPM5320                 | Ethernet 2DI/2DO                                                     |
| METSEPM5330                 | RS-485 Modbus, 2DI/2DO, 2Relay                                       |
| METSEPM5331                 | RS-485 Modbus, 2DI/2DO, 2Relay, MID certified                        |
| METSEPM5340                 | Ethernet 2DI/2DO, 2Relay                                             |
| METSEPM5341                 | Ethernet 2DI/2DO, 2Relay, MID certified                              |
| METSEPM5560                 | Modbus and Ethernet, 4DI/2DO                                         |
| METSEPM5561                 | Modbus and Ethernet, MID certified                                   |
| METSEPM5562                 | RMICAN approved, HW lockable, 4DI/2DO                                |
|                             | RMICAN approved, factory sealed, 4DI/2DO                             |
| METSEPM5563                 | DIN mount, no display Power meter, 4DI/2DO                           |
|                             | Remote Display for PM5563                                            |

| Mechanical characteristics          |           |                                                                                                                            |
|-------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------|
| Weight                              |           | 250 g                                                                                                                      |
| IP degree of protection (IEC 60529) |           | Designed to IP51 front display, IP30 meter body (Excluding connectors)                                                     |
| Dimensions                          | W x H x D | 96 x 96 x 44 mm (depth of meter from housing mounting flange)<br>96 x 96 x 13 mm (protrusion of meter from housing flange) |
| Mounting position                   |           | Vertical                                                                                                                   |
| Panel thickness                     |           | 6.35 mm max                                                                                                                |

| Environmental characteristics |                                |                                                                                              |
|-------------------------------|--------------------------------|----------------------------------------------------------------------------------------------|
| Operating temperature         | Meter<br>Display               | -25 °C to 70 °C<br>-20 °C to 70 °C<br>(Display functions to -25 °C with reduced performance) |
| Storage temp.                 | Meter + display                | -40 °C to 85 °C                                                                              |
| Humidity rating               |                                | 5 % to 95 % RH at 50 °C (non-condensing)                                                     |
| Pollution degree              |                                | 2                                                                                            |
| Altitude                      |                                | ≤ 3000 m max                                                                                 |
| Indoor use only               | Not suitable for wet locations |                                                                                              |

| Electromagnetic compatibility |                                       |
|-------------------------------|---------------------------------------|
| Electrostatic discharge       | IEC 61000-4-2★                        |
| Immunity to radiated fields   | IEC 61000-4-3★                        |
| Immunity to fast transients   | IEC 61000-4-4★                        |
| Immunity to impulse waves     | IEC 61000-4-5★                        |
| Conducted immunity            | 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 class A, EN 55011 class A |
| Conducted emissions           | FCC part 15 class A, EN 55011 class A |
| Harmonics                     | IEC 61000-3-2★                        |
| Flicker emissions             | IEC 61000-3-3★                        |

| Safety                                    |                                                                                                                                                                     |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Europe                                    | CE, as per IEC 61010-1 3rd Edition                                                                                                                                  |
| U.S. and Canada                           | UL 61010-1 and CAN/CSA-C22.2 No. 61010, 3rd Edition                                                                                                                 |
| Measurement category (Voltage inputs)     | Per IEC 61010-1<br>CAT III, 20-277 V L-N / 20-480 V L-L<br>CAT II, 20-400 V L-N / 20-690 V L-L<br>Per UL 61010-1 and CSA C22.2 NO. 61010-1<br>CAT III, 20-300 V L-L |
| Current Inputs (sensor connected)         | Require external Current Transformer for Insulation                                                                                                                 |
| Overvoltage Category (Control power)      | CAT III                                                                                                                                                             |
| Overvoltage Category (Relay)              | CAT II                                                                                                                                                              |
| Dielectric withstand                      | As per IEC 61010-1<br>Double insulated front panel display                                                                                                          |
| Protective Class                          | Class II                                                                                                                                                            |
| Double insulation at user-accessible area | Included                                                                                                                                                            |

| Communication                     |                                                                                                                                                                 |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RS-485 port                       | 2-Wire, 9600, 19200 or 38400 baud, Parity - Even, Odd, None, 1 stop bit if parity Odd or Even, 2 stop bits if None; Modbus RTU, Modbus ASCII (7 or 8 bit), JBUS |
| Firmware and language file update | Update via communication port using DLF3000 software                                                                                                            |
| Isolation                         | 2.5 kVrms                                                                                                                                                       |

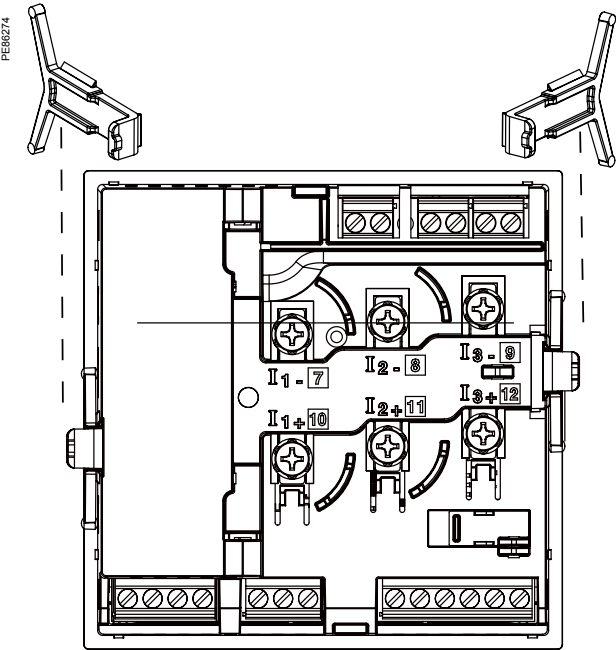
| Human machine interface             |                         |
|-------------------------------------|-------------------------|
| Display type                        | Monochrome Graphics LCD |
| Resolution                          | 128 x 128               |
| Backlight                           | White LED               |
| Viewable area (W x H)               | 67 x 62.5 mm            |
| Keypad type                         | 4-button                |
| Indicator Heartbeat / Comm activity | Green LED               |

| Energy pulse output / Active alarm indication (configurable) |                    |
|--------------------------------------------------------------|--------------------|
| Type                                                         | Optical, amber LED |
| Wavelength                                                   | 590 to 635 nm      |
| Maximum pulse rate                                           | 2.5 kHz            |

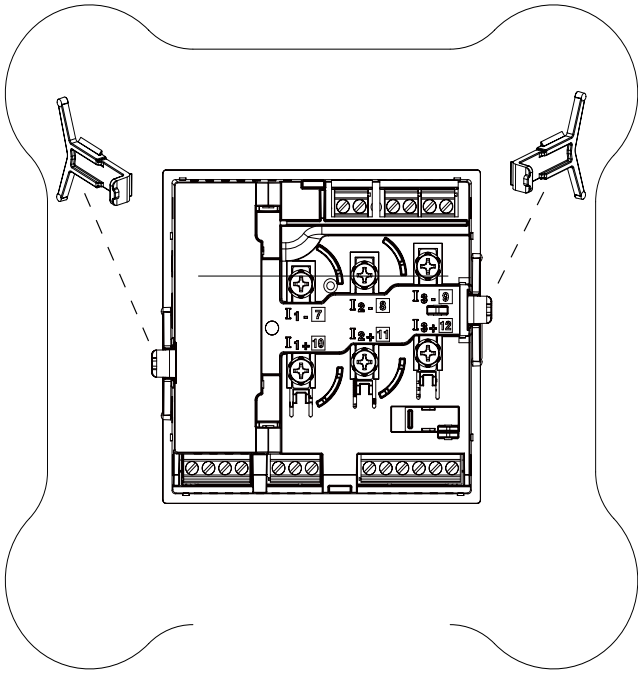
Rear of meter - open



Rear view retainers - installation



Rear view retainers - users



For detailed installation instructions see the product's Installation Guide.

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RCS Nanterre 954 503 439  
Capital social 896 313 776  
[www.schneider-electric.com](http://www.schneider-electric.com)

Product name  
**PLSED310136EN**

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

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have been awarded the Green Premium ecolabel



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