POWERLOGIC *Power Meter Series 700*

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POWERLOGIC Systems help you control the Cost, Quality and Reliability of Electric Power. They provide savings through reduced utility costs, effective power equipment management, increased power system reliability and downtime avoidance.

The **POWERLOGIC PM700** series is a highperformance power monitoring unit, providing all the measurement capabilities required to monitor an electrical installation in a single 96 x 96 mm unit extending only 50mm behind the mounting surface. With its large, easy-to-read display, you can monitor all three phases and neutral at the same time. The anti-glare display features large 11 mm high characters and powerful backlighting for easy reading even in extreme lighting conditions and viewing angles.

The Power Meter Series 700 is available in three versions:

- PM700MG, basic version with THD and min/ max readings
- PM700PMG, basic version plus two pulse outputs for energy metering
- PM710MG, basic version plus an RS 485 port for Modbus communication

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Applications

- Panel instrumentation

- Sub-billing and cost allocation

- Remote monitoring of an electrical installation

- Harmonic monitoring (THD)

Characteristics

Requires only 50 mm behind mounting surface

The Power Meter Series 700 can be mounted on switchboard doors to maximise free space for electrical devices.

Large back lit display with integrated bar charts

Displays 4 measurements at a time for fast readings.

Intuitive use

Easy navigation using context-sensitive menu.

Power and current demand, THD and min/max reading in basic version

A high-performance solution for trouble-free monitoring of your electrical installation.

Energy class 1 as defined by IEC 61036

Suitable for sub-billing and cost-allocation applications.

| Selection guide | | PM700MG | PM700PMG | PM710MG |
|-------------------------------------|---------------------|--|--------------------------------------|--------------------|
| General | | | _ | _ |
| Use on LV and HV systems | | | | |
| Current and voltage accuracy | | 0.5% | 0.5% | 0.5% |
| Energy and power accuracy | | 1.0% | 1.0% | 1.0% |
| Instantaneous rms values | | | | |
| Current | Phases and neutral | | | |
| Voltage | Ph-Ph and Ph-N | | | |
| Frequency | | | | |
| Active, reactive, apparent power | Total and per phase | | | |
| Power factor | Total | | | |
| Energy values | | | | |
| Active, reactive, apparent energy | | | | |
| Demand values | | | | |
| Current | Present and max. | | | |
| Active, reactive, apparent power | Present and max. | | | |
| Setting of calculation mode | Block, sliding | | | |
| Power quality measurements | , | | | |
| Harmonic distortion | Current and voltage | | | |
| Data recording | and tonago | - | | |
| Min/max of instantaneous values | | | | |
| Display and I/O | | | | _ |
| Backlit LCD display | | | | |
| Pulse output | | - | 2 | |
| Communication | | · · | <u> </u> | _ |
| RS 485 port | | | | |
| | | _ | - | |
| Modbus protocol | | - | - | |
| Electrical characteristics | | 0.50/ | | |
| Measurement | Current and voltage | 0.5% | | |
| accuracy | Power | 1% | | |
| Mechanical characteristics | | 0.071 | | |
| Weight | | 0.37 kg | | |
| IP degree of protection (IEC 60529) | | IP52 front display, IP30 meter body | | |
| Dimensions | | | 96 x 96 x 69 mm (meter with display) | |
| | | 96 x 96 x 50 mm | (behind mounting surf | ace) |
| Environmental conditions | | | | |
| Operating temperature | Meter | 0 °C to +60 °C | | |
| | Display | 0 °C to +50 °C | | |
| Pollution degree | | 2 | | |
| Dielectric withstand | | As per EN61010, | UL508 | |
| Electromagnetic compatibility | | | | |
| Electrostatic discharge | | Level III (IEC 610 | 00-4-2) | |
| Immunity to radiated fields | | Level III (IEC 61000-4-3) | | |
| Immunity to fast transients | | Level III (IEC 61000-4-4) | | |
| nmunity to impulse waves | | Level III (IEC 61000-4-5) | | |
| Conducted immunity | · · | | Level III (IEC 61000-4-6) | |
| Immunity to magnetic fields | | Level III (IEC 61000-4-8) | | |
| Immunity to voltage dips | | Level III (IEC 61000-4-11) | | |
| Conducted and radiated emissions | | | vironment / FCC part 1 | 5 class B EN550 |
| Harmonics emissions | | IEC 61000-3-2 | | |
| Flicker emissions | | IEC 61000-3-3 | | |
| Safety | | 120 01000-0-0 | | |
| Europe | | (6 as par IEC 61 | 010-1 | |
| .S. and Canada | | (€, as per IEC 61010-1 UL508 | | |
| Communication | | 01300 | | |
| | | 0 | | |
| RS 485 port (PM710) | | 2-wire, up to 19200 bauds, Modbus RTU, SELV circuit, 6 | | |
| | | impulse (double in | nsulation) | |
| Display characteristics | | D | | |
| Dimensions 73 x 69 mm | | Back-lit green LC | D (6 lines total, 4 conc | urrent values) |
| Firmware characteristics | | | | |
| Min./max. | | | ax. with phase indicat | ion for voltages, |
| | | currents and THD | | |
| | | Min. and max. va | lues for power factor, p | oower (P. Q. S) ar |
| | | | | |

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