

Power Monitoring Solutions Metering Products

With effect from January 17th, 2024



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Discover Our Power Monitoring Solutions



Advanced PQ

High revenue Accuracy | High speed Transient Detection | Waveform Capturing – Sag| Swell | Patented DDD | GPS time sync | SOE | IEC PQ Compliance

Advanced Utility

High revenue Accuracy, transient detection, ABT application, Embedded web pages, Modbus mastering, GPS time sync, IEC PQ Compliance





Intermediate PQ

Patented Disturbance detection, Intermediate PQ, on board memory, alarms, waveform capture, sags & swells, smart demand controller

Multifunction Meters

Energy | Power | Demand | RTC | Multitariff, Calibration LED | Expandable DIDO | AIAO











iEM2000|3000



EM6459H | EM6438H| EM6433H







DM1000|3000

Basic Power Meters

Energy and Power Monitoring, VAF-PF

Insulation Monitoring Vigilohm Range







BCPM - Split &













Interducing New Range of **PM8000 Series** with Class A Compliance and Higher Sampling rate



PowerLogic[™] Series

1. Tailored Offers for Specific Applications and Segments





- BCPM A/B/C variants
- Split or solid core CTs
- 24 / 36/42 / 48 / 72 / 84 channels configuration

1.1 BCPM

*Price On Request

The PowerLogic™ BCPM is a highly accurate, full-featured metering product designed for the unique, multi-circuit and minimal space requirements of a high performance power distribution unit (PDU) or remote power panel (RPP).

- Maximise uptime and avoid outages has option to set sensitivity parameters so an alarm is triggered when current approaches any breaker limit.
- Fit any PDU or RPP design for both new and retrofit projects Lowers your total installation costs as well as the cost per meter point by supporting both new and retrofit installations.
- Track usage and allocate energy costs Allocate costs based on per rack energy consumption.
- > Effectively plan future infrastructure provides historical usage data, to ensure that new infrastructure projects are sized correctly.
- Enable accurate sub-metering Can monitor up to 84 branch circuits with a single BCPM.
- > Class 1.0 system accuracy Branch Power and Energy measurements fully meet ANSI and IEC class 1 accuracy requirements with 50 or 100 Amp CTs included.
- > Ethernet communication All models integrate easily into existing networks using Modbus RTU communications over an RS-485 serial link. BCPME and BCPMSCE models offer integrated Ethernet and add support for Modbus TCP, BACnet IP, BACnet MS/TP and SNMP. An optional external gateway can be added to all other models to add the same capability.





1.2 Insulation Monitoring Devices

*Price On Request

Required as part of an IT earthing system, an Insulation Monitoring Device (IMD) detects the initial fault so you can make repairs before a second fault occurs, which could trigger protective devices and halt operations.

- > Can be used in 3 levels of insulation monitoring.
 - Level 1: fault detection and signalling, manual fault location (all IMDs)
 - Level 2: automatic fault location
 - Level 3: feeder measurement + communication
- > Simple operation and installation.
- > Synchronicity with modern, communicating ungrounded electrical distribution networks.
- Compliance with international standards IEC 60364-4-41, IEC 61010-1, IEC 61557-8, IEC 61557-9.
- > Seamless integration into complete solutions.
- > Exclusive measurement of leakage capacitance.
- > Increased property life by enabling preventive and corrective maintenance operations.
- > Stores time-stamped alarms.
- > Insulation fault remote indicator (audible & visual).
- > Electrical fault (transformer overload or circuit breaker tripping) remote indicator (audible & visual).

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PowerLogic™ HDPM6000 high-density multi-circuit power meters enable customized

panelboard solutions for cost and network management in critical facilities.

With a modular platform approach to minimize integration costs, start-up time and operational expenses, HDPM6000 meters provide insight, accuracy and results. The HDPM6000 head unit provides voltage waveform capture, data logging and full Ethernet communication. HDPM6000S, with strip technology for branch circuit monitoring and click-in CT design, is perfect for new installations. The modular HDPM6000R is highly adaptable and can be retrofited into any switchgear, distribution panel or cabinet with a high density of circuits.

Applications

- Energy cost allocation
 - » Accurately correlate and/or bill for circuit- and processspecific costs, keep users accountable for energy use
- Energy monitoring
 - » Gather and analyze consumption data to identify patterns, target energy efficiency measures and verify results, identify waste and opportunities to reduce energy
- Power quality monitoring per circuit (THD + waveform capture)
 - » Analyze and interpret power quality data into useful information, improve system-wide performance, help determine causes of equipment malfunction
- Energy billing
 - » View current and historic circuit-focused energy bills, compare use across circuits, discover trends over time
- Compliance
 - » ASHRAE 90.1-2019, Seattle energy code, Title 24, etc.*

Asset management

- Monitor up to 192 circuits
- Identify increased harmonics in the rack servers to detect a potential failure (THD/circuit, waveform capture/circuit)
- Contact your Schneider Electric sales representative for confirmation on compliance to other local standards not mentioned here

Robust communications

 Support for MODBUS, SNMP and BACnet TCP IP

Cybersecurity

 Helps minimize vulnerabilities to critical power assets and systems and reinforce security strategy

Data logging

- On-board memory for data logging
- Meet the needs of robust code compliance applications

Modular and scalable

- Adapts to expanding electrical networks
- · Scalable, future-proof capabilities
- Simplified installation for reduced wiring issues

Panelboard solution

- Embedded web page for configuration and monitoring
- Touch screen HMI (optional) for data display
- EcoStruxure[™] Power integration

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Center for Stockable and Non stockable status of references.

2. High Accuracy, Specialized Solutions - for MV/LV Distribution



2.1 PowerLogic™ ION9000T NEW



*Price On Request

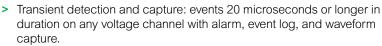
The PowerLogic™ ION9000T is your 24/7 power quality expert. providing information, not just data.

- > High-Speed Transient Capture (HSTC) of voltage events 100 nano seconds or longer in duration and up to 10,000 V in magnitude with high speed and disturbance waveform captures, as well as prevent statistics on each transient.
- Modular, flexible, patented ION™ programmable technology.
- Industry leading Class 0.1S accuracy IEC 62052-11 ed.2, ANSI C12.20 Class 0.1 (active energy).
- > Patented Disturbance Direction Detection The meter shall be able to provide a level of confidence that a voltage disturbance occurred upstream or downstream of the meter.
- Onboard PQ Analysis Complying with IEC61000-4-30 class A. IEC62586-1 / IEC62586-2, and verified by third-party lab certifications.
- Onboard pass/fail PQ characterization and assessment according to EN50160 and IEEE519.
- > Cybersecurity event logging, Syslog protocol, HTTPS, SFTP and full control of each communication port.
- The meter support time synchronisation methods that include Precision Time Protocol, IRIG-B, GPS (RS485), NTP and software command.



Price On Request

ION9000 makes your power network safer, more reliable, efficient, and compliant.



- 2 GB of standard non-volatile memory.
- > Fully compliant with IEC 61000-4-30 class A ed3 Power Quality standard according to IEC 62586-1 / -2.
- Provides onboard power quality compliance monitoring according to EN50160 and IEEE519.
- Can record voltage and current waveforms at 1024 samples per cycle
- The meter is revenue class compliant to class 0.1S according to ANSI and IEC for both 5A and 1A nominal inputs.
- Provides a graphical flexible programming capability to allow it to be adapted to nearly any application.
- Can serve as a Modbus Master in a communication network, either through reading and logging data from other Modbus devices, or serving as a Modbus serial to Ethernet gateway.
- > Provides a level of confidence that a voltage disturbance occurred upstream or downstream of the meter.
- Provides two color display options; one that is 96mm x 96mm with pushbutton controls and one that is 192mm x 192mm with touchscreen controls.



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2. High Accuracy, Specialized Solutions - for MV/LV Distribution



2.3 PowerLogic™ ION 8650

Providing high accuracy and a wide range of features for transmission and distribution metering, the PowerLogic™ ION8650 advanced revenue and power quality meter has the flexibility to change along with your needs.

- > Utility grade accurate metering with IEC 62053-22/23 Class 0.2S with 1024 samples / cycle.
- The power meter has 3rd party laboratory test reports for IEC 61000-4-30 Class 'A' 2nd edition and IEC 61000-4-15 - Flicker.
- > Has 14 programmable oscillographic waveform recorders.
- > Can be configured to provide COMTRADE waveforms.
- > Can perform high-speed sag/swell detection of voltage disturbances on a cycle-by-cycle basis, providing the duration of the disturbance, the minimum, maximum and average value of the voltage for each phase during the disturbance.
- > Has 128MB* of onboard memory.
- > Capable of communicating via hardware ports simultaneously and independently: Ethernet, Serial: RS-232 or RS-485, ANSI 12.18 compliant optical port.
- > Support EN50160 reporting for compliance monitoring.
- > Built-in web pages in the power meter enables access to real-time values and basic power quality information using a standard web browser. Basic configuration of the power meter can also be performed through the browser.





2.4 PowerLogic™ ION7400 NEW



*Price On Request

Providing high accuracy and a wide range of features for transmission and distribution metering, the versatile PowerLogic™ ION7400 series advanced utility meter has the flexibility to change along with your needs.

- > Meets stringent IEC and ANSI measurement accuracy standards including ANSI C12.20 accuracy class 0.2, current class 2 and 10, and IEC 62053-22 Class 0.2S and is fully compliant with IEC 61557-12 PMD.
- The meter is certified by a third-party laboratory to the power quality standards IEC 61000-4-30, Edition 3 Class 'A' and IEC 62586-2 Edition 2. The meter's low pass anti-aliasing signal filters shall meet the requirements of IEC 61000-4-7.
- > Has sampling rate of 512 Samples/cycle.
- > Has a high-visibility color graphical display that is user programmable to display up to 6 parameters per screen.
- > Provides multi-port Ethernet and serial communications with at least two Ethernet ports and one RS485 serial port.
- > Industrial communication protocols supported by the meter includes Modbus, DNP3, and IEC 61850. The meter provides enhanced cybersecurity features not limited to HTTPS in accordance with TLS 1.2.
- > Has the ability to determine the location of a voltage disturbance by identifying the direction of the disturbance relative to the meter.

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2. High Accuracy, Specialized Solutions - for MV/LV Distribution





2.5 PowerLogic™ PM8000 Series NEW



*Price On Request

The PowerLogic™ PM8000 series meters are compact, costeffective multifunction power meters that will help you ensure reliability and efficiency of your power-critical facility.

- Meets stringent IEC and ANSI measurement accuracy standards including ANSI C12.20 accuracy class 0.2, current class 2 and 10, and IEC 62053-22 Class 0.2S and be fully compliant with IEC 61557-12 PMD.
- > Certified by a third-party laboratory to the power quality standards IEC 61000-4-30, Edition 3 Class 'A' and IEC 62586-2 Edition 2. The meter's low pass anti-aliasing signal filters shall meet the requirements of IEC 61000-4-7.
- > Has sampling rate of 512 Samples/cycle*.
- > Has a high-visibility color graphical display that is user programmable to display up to 6 parameters per screen.
- Has the ability to determine the location of a voltage disturbance by identifying the direction of the disturbance relative to the meter. The disturbance direction shall be captured in the device's event log, along with a timestamp and confidence level indicating level of certainty.
- > Meter's on-board web server provides access to real-time values, power quality information, and basic meter configuration.
- Provides set-point driven alarming capability.
- > Captures voltage and current channels for sub-cycle disturbances, as well as multi-cycle sags, swells and outages in quick succession, without dead time between recordings.

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^{*}Available only in Class A Meter



The highly capable PowerLogic™ PM5500, PM5600, and PM5700 power meters combine multiple features that are not typically found in basic range power meters: power quality capabilities, residual current monitoring, and MID conformance. This combination of features merge with industry-leading measurement accuracy to match the requirements of energy cost management applications in buildings and industry. Compliant with stringent international metering standards, these meters remove any uncertainty in billing for energy consumption and ensure a high level of performance that noncompliant devices cannot match.

Allocate energy costs, perform tenant sub-billing, pinpoint energy savings, optimize equipment efficiency and utilization, and perform a basic assessment of the power quality in your electrical network.

Residual Current Monitoring

 Proactively identify residual current to maximize electrical distribution uptime, reduce risk of faults, and improve safety

Power Quality Monitoring

 Identify power quality events to avoid downtime, prevent equipment damage

LVDC Control Power Option (24V DC)

- Continuously monitor system and log data, even during an outage or voltage instability, in addition to significant installation and material cost savings DNP3.0 Protocol
- Seamless tie-in to new or existing utility and heavy industrial applications without the need for additional gateways or protocol converters

Analog Inputs

 Monitor electrical and non-electrical parameters (e.g. temperature, flow rate, pressure etc.)

3. High Accuracy, Compact, Power Meters - for HV/MV/LV Distribution



3.1 PowerLogic™ PM5000

The PowerLogic™ PM5000 series power meters are the new benchmark in affordable, precision metering.

- > Easy to install and operate.
- Easy for circuit breaker monitoring and control with two Relay outputs (PM5330, PM5340.)
- > Identify power quality events to avoid downtime, prevent equipment damage.
- > Load management combined with alarm and timestamping
- > High performance and accuracy Provides Class 0.2S accuracy per IEC 62053-22 standard.
- > Residual Current Monitoring in PM5660 and PM5760
- Voltage sag and swell detection with waveform capture in PM5650 and PM5760.
- Individual Harmonics up-to 63rd (PM5560), 31st (PM53xx) & 15th (PM51xx) THD, TDD.
- > Onboard BACnet/IP, EtherNet/IP, and DNP3.0 protocol support
- Demand prediction based on sliding, fixed and rolling block, thermal methods.
- > Data logging upto 16 parameters.
- > WAGES Monitoring.
- > Allocate energy costs, perform tenant sub-billing, pinpoint energy savings, optimize equipment efficiency and utilization and perform a basic assessment of the power quality in your electrical network.

Product	Description	Reference	Unit MRP [₹]
PM5760	CI 0.2S, 63rd Harmonic, 1.1 MB, 2DI/2DO, RS-485, Ethernet, Wave- Form Capture and Sag/Swell, RCM	METSEPM5760	127617
PM5660	Cl 0.2S, 63rd Harmonic, 1.1 MB, 2DI/2DO, RS-485, Ethernet, RCM	METSEPM5660	106528
PM5650	CI 0.2S, 63rd Harmonic, 1.1 MB, 4DI/2DO, RS-485, Ethernet, Wave-Form Capture and Sag/Swell	METSEPM5650	111666
PM5580	Cl 0.2S, 63rd Harmonic, 1.1 MB, 4DI/2DO, RS-485, Ethernet	METSEPM5580	83888
PM5570	Cl 0.2S, 63rd Harmonic, 1.1 MB, 2DI/2AI/2DO, RS-485, Ethernet	METSEPM5570	82081
PM5560	Cl 0.2S, 63rd Harmonic, 1.1 MB, 4Dl/2-DO, RS-485, Ethernet	30003008D	81411
PM5340	CI 0.5S, 31st Harmonic, 256 kB, 2DI/2DO/2-Relay, Ethernet	30003007D	47619
PM5320	CI 0.5S, 31st Harmonic, 256 kB, 2DI/2DO, Ethernet	30003005D	44383

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3. High Accuracy, Compact, Power Meters - for HV/MV/LV Distribution



3.2 Smart Demand Controller - EM7200

EasyLogic™ EM7230 / EM7280 / EM7290 is a smart demand controller for optimizing maximum demand charges in LV or MV circuits.

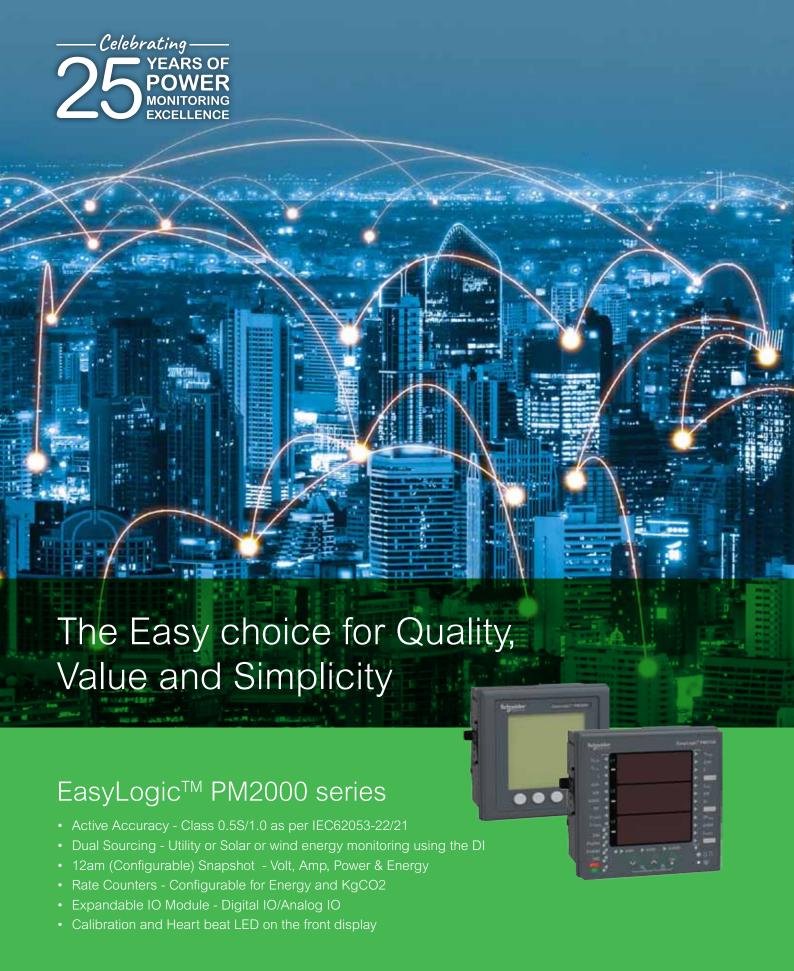
- > Accuracy Class 0.2*, 0.5S and Class 1.0 as per IEC 62053 21/22.
- > True RMS measurement 64 samples per cycle.
- > Power quality analysis: THD % measurements and Individual harmonics up to 31st order for voltage and current, per-phase.
- > Demand management: Simultaneous display of peak, present, predicted & rising demands of all the four demand parameters (W, VA, VAR, Amps) configurable for 1 to 30 minutes interval with prediction and spare load.
- > Multi-tariff energy 4 multi tariff registers, can be activated through RTC
- > On board 3 Form C mechanical relays for Demand control and management.
- > PF Lock features for advanced Revenue metering.
- > On board Modbus RTU RS-485 communication port.
- > Billing: Tenant billing/utility meter cross check (where local regulations are not applicable).
- > 4 Highs' & 4 Lows' for Instantaneous and Demand parameters with Date & Time stamp.

Product	Description	Reference	Unit MRP [₹]
EM 7290	Demand Controller Cl0.2(+1), RS-485	30002975	64888
EM 7280	Demand Controller Cl0.5S, RS-485	30002198	50618
EM 7230	Demand Controller Cl1.0, RS-485	30002055	46724

⁽⁺¹⁾Class 0.2S compliance available in 3ph,4w system

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3. High Accuracy, Specialized Solutions- for MV/LV Distribution





3.3 EasyLogic™ PM2000 Series

Offering all the measurement capabilities required to monitor and electrical installation in a single 96 x 96 mm unit, with LED or LCD display options.

- > Energy Standard Class 0.5S /1.0 as per IEC 62053-22 / 21.
- > Easy to install: Mounts using two clips, no tools are required.
- > Easy to operate: Intuitive navigation with self guided menus and test LED at the front panel used for test and calibration of the meter on site or laboratory.
- Power quality analysis: Offers THD measurements and Individual harmonics up to15th order in PM2x20 variants and up to 31st in PM2x30 variants.
- > Load management: Simultaneous display of peak, present, predicted & rising demands of all the four demand parameters.
- > Billing: Tenant billing/utility meter cross check.
- Password: Field configurable password for securing set up information and prevent tampering of integrated values.
- > Cyber security: Option for disabling RS-485 port through front panel keys against unauthorized access. It helps during installation and trouble shooting of communication network.
- > 12am snap shot: The values from summary page will be stored as snap shot and refreshed by next day 12am.
- Rate counters: 2 configurable counters display values in custom specified units based on energy recorded (e.g., kgCO2 carbon emission or energy cost).

Product	Description	Reference	Unit MRP [₹]
PM2230	CI 0.5S, LCD display, 31st Harmonics, RS-485, 12 AM Snapshot, kgCO2 counters	METSEPM2230D	34085
PM2220	Cl 1.0, LCD display, 15th Harmonics, RS-485, 12 AM Snapshot, kgCO2 counters	METSEPM2220D	31357
PM2130	CI 0.5S, LED display, 31st Harmonics ⁽⁺¹⁾ , RS-485	METSEPM2130D	32647
PM2K2DIDO ⁽⁺²⁾	Module with 2-Digital input and Relay outputs for PM2x30 meter	METSEPM2KDGTLIO22D	3874
PM2K1AIAO ⁽⁺²⁾	Module with 1 each Analog input and output for PM2x30 meter	METSEPM2KANLGIO11D	4593
PM2K2AIAO(+2)	Module with 2- Analog inputs and outputs for PM2x30 meter	METSEPM2KANLGIO22D	5595
PM2K2DI2RO ⁽⁺²⁾	Module with 2-Digital input and Relay outputs for PM2x30 meter	METSEPM2K2DI2ROD	5443

⁽⁺¹⁾Through communication only

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⁽⁺²⁾Any one IO module can be used at a time with PM2130 or PM2230 meter. The control power range with IO module shall be 72 to 304 V AC L-N or 90 to 304 V DC.



Envisioning **Atmanirbhar Bharat** by creating world-class products in India, for India and the world



EasyLogic™ Series and PowerLogic™ Series

4. India's Most Sold Multifunction Meters





4.1 EasyLogic[™] EM6400NG+

EM6400NG+, is an enhanced version of EM6400NG and legacy EM6400 meter series with innovative features to meet the needs of energy efficient India.

- > Energy standards: Active energy Class 0.5S/ Class 0.2* as per IEC 62053-22, Active energy Class 1.0 as per IEC 62053-21. Reactive energy Class 1 as per IEC 62053-24.
- > LED display: Intuitive navigation with self-guided, three buttons, LEDs of height ~14.2 mm (0.55 in), and three lines of concurrent values.
- Compliant to IEC 61557-12: PMD/[SD|SS]/K55/1 for Class 1 and PMD} SD|SS]/K55/0.5 for Class 0.5S and Class 0.2 (for firware version 1.3.0 and higher).
- > Power quality analysis: The EM6400NG+ offers THD % measurements and Individual harmonics up to 15th order for voltage and current parameters, per-phase basis.
- > Load management: Peak demands of all the four demand parameters (W, VA, VAR, Amps) with date and time stamp.
- > Communication Pulse output, RS485.
- > Cybersecurity: Option for disabling RS-485 port through front panel keys against unauthorized access. This feature can also be used for toggling between the RTU devices in case of limited availability of nodes in software system.
- Suppression current: To disregard induced or negligible current flowing in the circuit, minimum value of current detection can be settable from 5 to 99 mA, default is 5 mA.
- > Green premium: EOL, REACH, PEP, RoHS compliance.

Product	Description	Reference		Unit MRP [₹]
EM6400NG+	CI 0.2, LED display, THD, 15th Harmonics, RS-485	METSEEM6400NGRSCL2		31858
EM6400NG+	CI 0.5S, LED display, THD, 15th Harmonics, RS-485	METSEEM6400NGRSCL5		23544
EM6400NG+	CI 1.0, LED display, THD, 15th Harmonics, RS-485	METSEEM6400NGRSCL1	☑	18583
EM6400NG+	CI 0.5S, LED display, THD, 15th Harmonics, POP	METSEEM6400NGPOCL5		16361
EM6400NG+	CI 1.0, LED display, THD, 15th Harmonics, POP	METSEEM6400NGPOCL1	☑	14574

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 $^{^*}$ Conzerv is now EasyLogic $^{\rm TM}$

5. India's Most Trusted, Reliable and Accurate Load Managers



5.1 Hexa Series EM64XXH and PM1130H Meters

Ideal replacement for multiple analog meters for stand-alone metering in custom panels, switch boards, switch-gear, genset panels, motor control centres, power factor improvement panels, and OEM panel board.

- > Energy standards: Active energy Class 0.5 as per IEC 62053-22, Active energy Class 1.0 as per IEC 62053-21. Reactive energy Class 1 as per IEC 62053-23.
- > Favourite page: The device enables user with the option to select parameters to be set in favourite page on in EM6436H.
- Power and energy: measurement, display and recording of any one power and corresponding energy parameters simultaneously in EM6433H, EM6436H and EM6438H - W/Wh or VA/ VAh or VAR/ VARh.
- Compliant to IEC 61557-12: PMD/[SD|SS]/K70/1 for Class 1 and PMD/ [SD|SS]/K70/0.5 for Class 0.5S.
- Analog load bar in LED display type: The colour-coded analog load bar at the front side indicates the percentage of load through 12 LED's with the option to select full scale based on connected load.
- Protective cover: Tamper-proof terminal screws do not detach from housing.
- Password: Field configurable password for securing set up information and prevents tampering of integrated values.
- > Cyber security: Option for disabling RS-485 port through front panel keys against unauthorized access.

Product	Description	Reference		Unit MRP [₹]
PM1130H	CI 0.5, LED display, Demand, THD, RS-485, 1 Relay, Dual Source P&E	METSEPM1130HCL05RD		19970
EM6438H	Cl 0.5, LED display, RS-485, Dual Source P&E	METSEEM6438HCL05RS		9808
EM6438H	Cl 1.0, LED display, RS-485, Dual Source P&E	METSEEM6438HCL10RS	☑	9106
EM6436H	Cl 0.5, LED display, RS-485, MFM	METSEEM6436HCL05RS		13412
EM6436H	Cl 1.0, LED display, RS-485, MFM	METSEEM6436HCL10RS	☑	11308
EM6436H	Cl 1.0, LED display, No Communication, MFM	METSEEM6436HCL10NC		9674
EM6433H	Cl 0.5, LED display, RS-485, A + P & E	METSEEM6433HCL05RS		9095
EM6433H	Cl 1.0, LED display, RS-485, A + P & E	METSEEM6433HCL10RS	☑	8568
EM6459H	Cl 0.5, LED display, RS-485, VAF + PF	METSEEM6459HCL05RS		9663
EM6459H	Cl 1.0, LED display, RS-485, VAF + PF	METSEEM6459HCL10RS	☑	9066
EM6459H	Cl 1.0, LED display, No Communication, VAF + PF	METSEEM6459HCL10NC		7081

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✓ NORMAL STOCK ITEMS

W.E.F. January 17th, 2024

5. India's Most Trusted, Reliable and Accurate Load Managers



5.2 Hexa Series LCD Range

Offering all the measurement capabilities required to monitor the electrical installation in 132 * 32 pixels LCD display.

- > Energy standards: Active energy Class 0.5 as per IEC 62053-22, Active energy Class 1.0 as per IEC 62053-21. Reactive energy Class 2 as per IEC 62053-23.
- > LCD display: Elegant single row, bright back lit graphical LCD display 132 * 32 pixels, Fast in-line view, three parameters name and value at one glance.
- Power and energy: measurement, display and recording of three power and corresponding energy parameters simultaneously in PM1225H - W/Wh, VA/ VAh and VAR/ VARh.
- Communication: RS-485 serial channel connection Industry standard Modbus RTU protocol.
- IP degree of protection: IP 51 front side, IP 30-meter body, tested as per IEC 60529 - upgrade to IP65 front side with Optional accessory kit METSEIP65OP96X96FF.
- > Password: Field configurable password for securing set up information and prevents tampering of integrated values.
- Smart line indicators in LCD display meter: Helps check the presence of input supply voltage (healthy phase).
- Suppression current: To disregard the measurement of induced and panel auxiliary load current in the circuit (settable from 5 to 99 mA).

Product	Description	Reference	Unit MRP [₹]
PM1230H	Cl 0.5, LCD display, Demand, THD, RS-485, Dual Source P&E	METSEPM1230HCL5	18731
PM1225H	Cl 0.5, LCD display, Restricted MFM, RS-485	METSEPM1225HCL5	26003
PM1225H	Cl 1.0, LCD display, Restricted MFM, RS-485	METSEPM1225HCL1	20523
EM1220H	CI 0.5, LCD display, Load Manager, RS-485	METSEEM1220HCL5	13812
EM1220H	Cl 1.0, LCD display, Load Manager, RS-485	METSEEM1220HCL1	12033

Please contact Customer Care Center for Stockable and Non stockable status of references.



Introducing "New face of Power Monitoring"

EasyLogic[™] PM112XH Series

- Active Accuracy Class 1.0 / 0.5 as per IEC 62053-21 / 22
- Configurable Favorite Page
- Modbus RTU protocol RS-485 communication port
- Green Premium Product



5. India's Most Trusted, Reliable and Accurate Multifunction Meters



5.3 Hexa Series PM112XH Series

Assured quality that you can trust to meet your needs throughout its lifecycle.

- > Energy standards: Active energy Class 0.5 as per IEC 62053-22, Active energy Class 1.0 as per IEC 62053-21. Reactive energy Class 2 as per IEC 62053-23.
- > LED display: Intuitive navigation with self-guided, four buttons, 8 segment alphanumeric LEDs of height ~14.2 mm (0.55 in), and three lines of concurrent values with Kilo & Mega value indicators.
- > Power and energy: measurement, display and recording of three power and corresponding energy parameters simultaneously in PM1125H - W/Wh, VA/ VAh and VAR/ VARh.
- > Communication: RS-485 serial channel connection Industry standard Modbus RTU protocol.
- PM1120H, measurement and display of any one power parameter at a time - configurable through set-up/ communication. Energy measurement depends on type of power parameter selected during set up (W/Wh or VA/VAh or VAR/VARh).
- > Delivered & Received or Forward & Reverse or Import & Export energy (4 quadrant) - Accumulated or Integrated active (Real - Wh), reactive (VARh), apparent (VAh). 2 quadrant energy measurment in PM1120H.
- > Suppression current: To disregard the measurement of induced and panel auxiliary load current in the circuit (settable from 5 to 99 mA).

Product	Description	Reference	Unit MRP [₹]
PM1120H(+1)	Cl 0.5, LED display, Demand, THD, RS-485, P & E	METSEPM1120HCL05RD	20953
PM1120H(+1)	Cl 1.0, LED display, Demand, THD, RS-485, P & E	METSEPM1120HCL10RD	17588
PM1125H	CI 0.5, LED display, Demand, THD, RS-485, MFM	METSEPM1125HCL05RD	24169
PM1125H	CI 1.0, LED display, Demand, THD, RS-485, MFM	METSEPM1125HCL10RD	19326

⁽⁺¹⁾Measurement and display of any one power parameter at a time (W/Wh or VA/VAh or VAR/VARh).

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Give your business a competitive edge with PowerTag wireless energy sensors

With PowerTag Energy, you can add innovation to any project with one simple action. Even in panels where space is at a premium, you can easily tag circuit breakers up to 630 A to help your customers reduce costs and improve efficiency. As a connected product, PowerTag Energy is a key part of ExoStruxure Power – Schneider Electric's IoT-enabled, open and interoperable architecture. And a small-but-impressive solution your customers will appreciate.



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^{*} Secure it: As part of the Acti 9 communication system, PowerTag monitors loads and identifies load imbalances and overload levels before a trip occurs. PowerTag also alerts you to voltage losses, so you save time recovering your installation in the event of load downtime. An email alert means you can take preventive action thus avoiding potential downtime. © 2020 Schneider Electric. All Rights Reserved. Life Is On Schneider Electric is a trademark and the property of Schneider Electric SE, its subsidiaries and affiliated companies. 998-20959054_GMA_630A_image63A_PanelBuilder_print ad.indd

6. PowerTag - World's Smallest Energy Sensor



6.1 PowerTag for MCB

Monitor Your Energy

- > Real time U, V, I, P, PF.
- > Active energy metering (Class 1 EN 61557-12) partial and total.
- > Load balance overview for 3P.

Improve your Maintenance

- > Pre Alarm on overload.
- > Specific "alarms" for U, I, P.
- > Alarm on feeder voltage loss.

Product	Description	Reference	Unit MRP [₹]
PowerTag	PowerTag Energy M63 1P+W	A9MEM1520	10738
PowerTag	PowerTag Energy M63 1P+N Top	A9MEM1521	10738
PowerTag	PowerTag Energy M63 1P+N Bottom	A9MEM1522	10738
PowerTag	PowerTag Energy M63 3P	A9MEM1540	21673
PowerTag	PowerTag Energy M63 3P+N Top	A9MEM1541	21673
PowerTag	PowerTag Energy M63 3P+N Bottom	A9MEM1542	21673
PowerTag	PowerTag Energy F63 1P+N	A9MEM1560	11796
PowerTag	PowerTag Energy F63 3P+N	A9MEM1570	23622
PowerTag	PowerTag Energy Sensor 63A -3P/3P+N	A9MEM1573	22497
PowerTag	PowerTag Energy Sensor 160A -F160 - 3P/3P+N	A9MEM1580	29051
PowerTag	PowerTag Energy Sensor Rope 200A - R200 - 3P/3P+N	A9MEM1590	54432
PowerTag	PowerTag Energy Sensor Rope 600A - R600 - 3P/3P+N	A9MEM1591	56874
PowerTag	PowerTag Energy Sensor Rope 800A - R1000 - 3P/3P+N	A9MEM1592	60795
PowerTag	PowerTag Energy Sensor Rope 2000A - R2000 - 3P/3P+N	A9MEM1593	63738



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6.2 PowerTag for MCCB

- > Can also be installed in existing panels, designed to enhance the monitoring of your electrical assets.
- > Simplifies the connectivity of individual breakers to a Building Management System (BMS) along with ease of installation.
- > Visualize in real-time on your Smartphone or PC.

Product	Description	Reference	Unit MRP [₹]
PowerTag	ENERGY SENSOR POWERTAG NSX - 250A 3P	LV434020	37245
PowerTag	ENERGY SENSOR POWERTAG NSX - 250A 3P+N	LV434021	40821
PowerTag	ENERGY SENSOR POWERTAG NSX - 630A 3P	LV434022	64374
PowerTag	ENERGY SENSOR POWERTAG NSX - 630A 3P+N	LV434023	70507

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6. PowerTag - World's Smallest Energy Sensor (cont.)



6.3 Smartlink

- > Compliance to IEC/EN 61131-2.
- > Protection Monitoring Device Status and alarm notifications.
- > Load Control / Switching through Contactors and Impulse Relays.
- Energy Monitoring through pulse meters.
- Alarm over email and analog sensors (temperature / humidity) with Smartlink Ethernet.
- Plug & Play Pre fabricated cables and in built web pages.
- > Rated Voltage: 24V DC.

Product	Description	Reference	Unit MRP [₹]
Smartlink	Smartlink Modbus	A9XMSB11	51589
Smartlink	PowerTag Link	A9XMWD20	33519
Smartlink	Smartlink SI-B	A9XMZA08	58030

6.4 Communication Auxiliaries

Description	Reference	Unit MRP [₹]
Mounting Kit for Din Rail	A9XMFA04	2110
Prefabricated Cables M	A9XCAM06	7792
Locking Clips for Multiclip 80	A9XMLA02	919
Connectors 5 Pin	A9XC2412	10733
Prefabricated Cables L	A9XCAL06	8860
Prefabricated Cables S	A9XCAS06	7715
SEMI - Prefabricated Cables U	A9XCAU06	5326

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Energy metering integration made simple

Acti**9** iEM2000 and iEM3000 series Intelligent Energy Meters

7. DIN Rail Mount Meters - Accurate, Flexible Power Meters



7.1 PowerLogic™ PM3200 Series

Cost-attractive, feature-rich range of DIN rail mounted power meters that offers all the measurement capabilities required to monitor an electrical installation.

- > Energy standards: Active energy Class 0.5S as per IEC 62053-22, Active energy Class 1.0 as per IEC 62053-21. Reactive energy Class 2 as per IEC 62053-23 and IEC 61557-12.
- > Supported monitoring parameters include a full range of 3-phase voltage, current, power, energy, and demand measurements, power factor, frequency and total harmonic distortion.
- Support four-quadrant metering at 32 samples per cycle.
- Backlit dot-matrix LCD display, anti-glare and scratch resistant with a minimum of 128 x 96 pixels, capable of displaying four values in one screen simultaneously.
- > Onboard data logging to log energy data and alarms.
- > Supports up to 18 set-point driven alarms.
- > Multi-tariffs meter with up to 4 tariffs and can be controlled by internal real-time clock, digital input or communication.
- > Has Import and Export | Active and Reactive Energy Measurement.
- > Equipped with Anti-tamper security feature to ensure the integrity of the measurements.

Product	Description	Reference	Unit MRP [₹]
PM3255	Power meter + 2 DIDO	METSEPM3255	22933
PM3250	Power meter with RS-485 port	METSEPM3250	22331
PM3210	Power meter with pulse output	METSEPM3210	20899

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7. DIN Rail Mount Meters - Accurate, Flexible Power Meters





7.2 PowerLogic™ iEM2000 and iEM3000 series

Cost-attractive, feature-rich, Acti9 energy meters are perfect for helping your customers' installations become more energy efficient.

- Accuracy class 1.0 and 0.5S (IEC 62053-21/22:2020) for active energy metering.
- > Compliance to regulations EN50470-1/3, IEC 61557-12, IEC 62053-21/22/23: 2020, IEC 62052-31:2015, IEC 62052-11:2020.
- > Bottom-to-bottom, direct connection with ratings: 40 A (iEM2000 models), 63 A (iEM3100 models), 100 A (iEM24x5 models) and 125 A (iEM3300 models).
- > Four-quadrant metering to differentiate energy consumption.
- > Additional parameters (Voltage, Current, PF, Frequency, Power active, reactive, apparent) to monitor network balance and overload behavior.
- Save up to four different time slots to manage multiple tariffs (peak/off-peak, workday/weekend).
- > Use the meter as a pulse counter for another meter (WAGES monitoring).
- > kW overload alarm helps prevent utility demand charges.
- > Control tariffs via digital inputs, internal clock, or communication.
- > Antitamper sealing parts prohibit accessibility to all metering connections.
- > Well protected for normal use: IP40 on front face, IP20 inside cabinet.

Product	Description	Reference	Unit MRP [₹]
iEM2435	Power and Energy meter, Cl 1, M-Bus, MID, 2 tariffs, 2 pulse outputs, 4 quadrants, LCD display	A9MEM2435	17823
iEM2455	Power and Energy meter, Cl 1, RS-485, MID, 2 tariffs, 2 pulse outputs, 4 quadrants, LCD display	A9MEM2455	16503
iEM3110	Energy meter with pulse output	A9MEM3110	16210
iEM3150	Energy meter, RS-485	A9MEM3150	17707
iEM3155	Advanced multi-tariff energy meter, RS-485	A9MEM3155	18760
iEM3165	Advanced multi-tariff energy meter, BACnet MS/TP	A9MEM3165	23504
iEM3200	Basic energy meter	A9MEM3200	14573
iEM3210	Energy meter with pulse output	A9MEM3210	14585
iEM3235	Advanced multi-tariff energy meter, M-Bus	A9MEM3235	28089
iEM3250	Energy meter, RS-485	A9MEM3250	15923
iEM3255	Advanced multi-tariff energy meter, RS-485	A9MEM3255	16980
iEM3265	Advanced multi-tariff energy meter, BACnet MS/TP	A9MEM3265	24224
iEM3300	Basic energy meter	A9MEM3300	15666
iEM3310	Energy meter with pulse output	A9MEM3310	22436
iEM3350	Energy meter, RS-485	A9MEM3350	23781
iEM3355	Advanced multi-tariff energy meter, RS-485	A9MEM3355	24736
iEM3365	Advanced multi-tariff energy meter, BACnet MS/TP	A9MEM3365	27948
iEM3555	Advanced multi-tariff energy meter, RS-485	A9MEM3555	30977

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EcoStruxure Panel Server is the next generation of gateway, providing a seamless connection of wired or unwired smart IoT devices to your edge control software or advisor. It is a foundational enabler for Schneider Electric EcoStruxure solutions.

Electrical safety

Panel Server is an integral part of Schneider Electric's continuous thermal monitoring application, helping reduce risk of electrical fires, increase people and assets protection. Implement the thermal monitoring of your electrical panel by connecting thermal and heat sensors to your Panel Server.

Power availability

Electrical distribution monitoring and power event analysis help avoid unplanned downtime caused by electrical failure. Panel server collects real-time data and alarms, presenting information through embedded webpages, making it available to edge control software or advisor for electrical system diagnostics. Use embedded webpages for first-level monitoring or monitor from your edge control.

Optimize energy efficiency

Improve your facility's energy efficiency and reduce energy consumption with energy usage analysis and performance tracking. Panel Server collects and shares energy data to help achieve your energy conservation initiatives. It is certified as part of an energy data management system according to ISO 50001, 50002, 50006.

Cybersecurity

Guarding your electrical assets and systems against cyberattacks is vital. Panel server is an IEC 62443 compliant device and is central to the IEC 62443-3-3 SL1 certified EcoStruxure Power system. Use Cybersecurity Admin Expert to manage user accounts, define your cybersecurity policy and retrieve security logs.



EcoStruxure Panel Server gives you access to the information you need to protect, maximize and optimize your power system.



Help keep people and assets safer



Maximize power availability



Optimize energy efficiency



Improve cybersecurity

IoT for an intelligent power network

All-in-one gateway

- Separates your OT network from your IT network
- · Wireless data concentrator
- Modbus RS485 to Modbus TCP
- Supports multiple Ethernet connections for serving information to edge control software and cloud applications

Simple commissioning

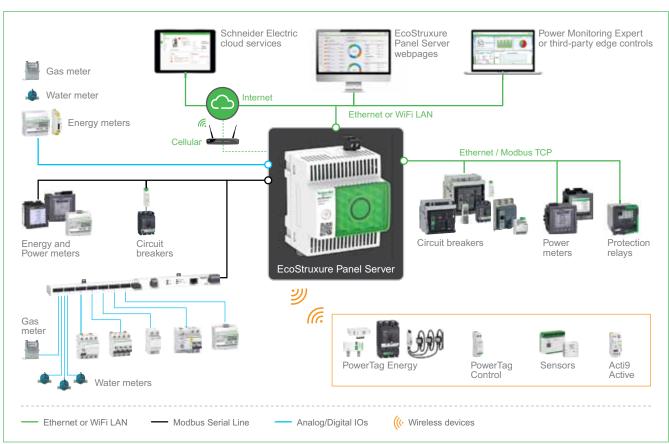
- EcoStruxure Power Commission software
- Device auto discovery
- Generation of acceptance reports to validate gateway configuration
- · Commission via Bluetooth® or WiFi

Intuitive operation

- User-friendly webpages offer first-level monitoring
- Contextualized data and operational insights
- Simple alarm setup for email notification
- Standardized IEC 62974-1 compliant datalogger and energy server



Architecture overview



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8. Ethernet Communication Gateways

8.1 Ethernet Communication Gateway Server / Converters

Panel Server



- > Retrieve data from wireless & Modbus devices.
- > Connect to edge control systems & cloud applications.
- > Plug & Play easy commissioning.
- > User friendly embedded webpages.
- > Cybersecurity at the core.

Product	Description	Reference	Unit MRP [₹]	
Panel Server Universal	Panel Server Universal with 24V DC power supply	PAS600L	41924	
	Panel Server Universal with 100-277 V AC/DC power supply	PAS600		
Panel Server Entry	Panel Server Entry with 110-277VACDC	PAS400	25900	
Panel Server Advanced	Panel Server Advanced with 110-277VACDC	PAS800	77700	
	Panel Server Advanced with 24VDC	PAS800L	77700	

Accessories for Power Monitoring

Description	Reference	Unit MRP [₹]
Adaptor Plate 144X144 mm	30000089	125
IP65 protection cover for PM5XXX, PM2XXX, NG+ and Hexa	METSEIP65OP96X96FD	4122

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9. LCD Display Energy Meters & VAF+PF Meters



9.1 EM1000 / EM1200 Series

Power & Energy Meter for electrical load and energy monitoring

- > Accuracy Class 1.0, 0.5.
- > Elegant single row backlit LCD display.
- > Monitors: PF, W/VA/Var.
- > Three parameters, name and value at single glance with direct reading of primary values.
- > Smart line indicators to check the healthy phase of input voltage.
- > Pulse output / RS485 communication port with Modbus RTU protocol.

Product	Description	Reference		Unit MRP [₹]
EM1200	EM1200 CI0.5 RS	30002572		5629
EM1000	EM1000 CI0.5 POP	30002571		4832
EM1200	EM1200 CI1.0 RS	30002565	☑	4639
EM1000	EM1000 CI1.0 POP	30002568	☑	3822



9.2 DM 6100 Series

High durability, sleek LCD display VAF+PF meters

- > Accuracy Class 1.0, 0.5.
- > Elegant single row, backlit LCD display.
- > Monitors: V, A, F, PF.
- > Three parameters, name and value at single glance with direct reading of primary values.
- > Four smart keys for easy navigation.
- > Smart line indicators to check the healthy phase of input voltage.
- > RS485 communication port with Modbus RTU protocol.

Product	Description	Reference	Unit MRP [₹]
DM6300	DM6300 CI0.5 RS	30002570	4660
DM6100	DM6100 CI0.5	30002569	3679
DM6300	DM6300 CI1.0 RS	30002566	4439
DM6100	DM6100 CI1.0	30002567	3504

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10. CE compliance - Volt/Amp/ frequency meter



10.1 EasyLogic™ DM3000 / DM1000

Digital panel meters for measurement of Volt / Amps / Frequency electrical parameters.

- > Accuracy 0.5 % on full scale for Volt & Amps and 0.2 % for Frequency.
- > CE certification as per IEC 61010-1 Edition 3.
- > Easy to operate: Intuitive navigation with single button for self-guided menus.
- > EMI/EMC tests as per IEC 61326-1.
- > Control power options: Universal range 44 to 275 V L-N AC/DC.
- > Panel key: Single key for programming, navigation or as selector switch.
- > Green premium Ecolabel product.

Product	Description	Reference	Unit MRP [₹]
DM3210	Three phase Voltmeter CI0.5	30002965	3380
DM3110	Three phase Ammeter CI0.5	30002964	3380
DM1210	Single phase Voltmeter CI0.5	30002962	2293
DM1110	Single phase Ammeter CI0.5	30002961	2293
DM1310	Frequency meter CI0.2	30002963	1746

11. Just the Basics - Voltage / Ampere / Frequency Meters



11.1 Just the Basics - Voltage / Ampere / Frequency **Meters**

Digital panel meters which can be used in industrial and commercial settings for measurement of Volt / Amps / Frequency electrical parameters

- > Accuracy 0.5 % on full scale for Volt & Amps and 0.2 % for Frequency.
- Easy to operate: Intuitive navigation with single button for self-guided
- Panel key: Single key for programming, navigation or as selector switch.
- LED display: 7 segment numeric LEDs of height ~14.2 mm (0.55 in) with 4 digits display in one row with kilo value indicator.
- Bright LED indicators Kilo & Phase indications for measured value.
- > Compact meter with 43.5 mm depth behind the panel.

Product	Description	Reference		Unit MRP [₹]
DM3210	Three phase Voltmeter CI0.5	30002462	☑	2754
DM3110	Three phase Ammeter CI0.5	30002461	☑	2754
DM3210	Three phase Voltmeter CI1.0	30002386	☑	2202
DM3110	Three phase Ammeter CI1.0	30002385	☑	2202
DM1210	Single phase Voltmeter CI0.5	30002460	☑	1865
DM1110	Single phase Ammeter CI0.5	30002459	☑	1865
DM1210	Single phase Voltmeter CI1.0	30002366	☑	1385
DM1110	Single phase Ammeter CI1.0	30002365	☑	1385
DM1310	Single phase Frequency Cl0.2	30002367	☑	1385

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^{*} Conzerv is now EasyLogic™



Purpose-built to keep your power reliable and efficient

EcoStruxure[™] Power Monitoring Expert

Power is critical to your operations. Disruptions impact productivity and safety. Wasted energy and equipment failures affect your bottom line. Grid systems are also becoming more dynamic and regulations more challenging. You need a way to reveal hidden risk and new opportunities.

Award-winning EcoStruxure™ Power Monitoring Expert (PME) simplifies management of complex power systems. It brings unique new capabilities that protect people and assets, keeps operations running and saves time and money. As a key element in an EcoStruxure Power solution, PME takes full advantage of IoT connectivity and distributed intelligence to help maximize your uptime and operational efficiency:

- Smart events and alarm clustering for intuitive filtering, searching and categorization of events and alarms
- Graphical timelines easily analyze event and alarm sequence, location and potential impact
- Advanced energy visualization analysis tools calculate, model, forecast and track energy performance indicators (EnPIs)
- Compliant with IEC62443 cybersecurity standards, for even the most demanding IT environments



EcoStruxure Power Monitoring Expert drives performance with the next generation in power and energy management.



Help keep people and assets safer



Optimize business reliability and continuity



Maximize operational lifecycle efficiency



Simplify compliance



The power of a SCADA uniquely designed for critical power management

EcoStruxure™ Power Operation

No matter the size or complexity of your electrical system, you need reliable power 24/7. Every second of downtime in a power-critical facility means business interruption and financial loss, unsafe conditions and damaged reputations. Your team requires the ability to react and correct issues immediately for every potential risk.

EcoStruxure Power Operation is a SCADA system uniquely designed to help large electrical distribution applications in facilities like data centers, industrials, airports and electro-intensive operations maximize uptime, unite medium and low voltage networks and integrate mechanical monitoring.



SCADA system for real-time situational awareness and cyber-resilient solutions

Power availability

Reduce downtime caused by electrical outages for optimum continuity and reliability. Using machine-learning algorithms and automation, Power Operation improves situational awareness to speed analysis and reduces the time required for your operators and engineers to discover root causes.

Energy efficiency

Power Operation helps you set energy targets, track consumption and monitor performance. Create overall efficiencies to avoid peak penalties, identify bill errors and allocate energy costs. Real-time management and KPI reporting improve your operational efficiency.

Cybersecurity

Stay connected while protecting people, electrical assets and valuable, sensitive information. Power Operation's third-party cybersecurity certifications provide peace of mind to give you operational confidence and helping you avoid malicious threats and safety hazards.





Boost operational efficiency



Improve confidence in operations and security



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Vishakhapatnam Schneider Electric India (P) Ltd.

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Tel.: 0891-6675500

For more information, visit our website at: www.se.com/in

- Product evolution is a continuous process and Schneider Electric reserves the right to modify/withdraw any product at any time without

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Customer Care Centre

Monday-Saturday, 9 a.m. to 8 p.m.

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