

# Power Monitoring Solutions Metering Products

With effect from June 01<sup>st</sup>, 2021



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# Get ready for GREEN Avatar of Power Monitoring

Discover EM6400NG<sup>+</sup> India's Most sold Multifunction Meter



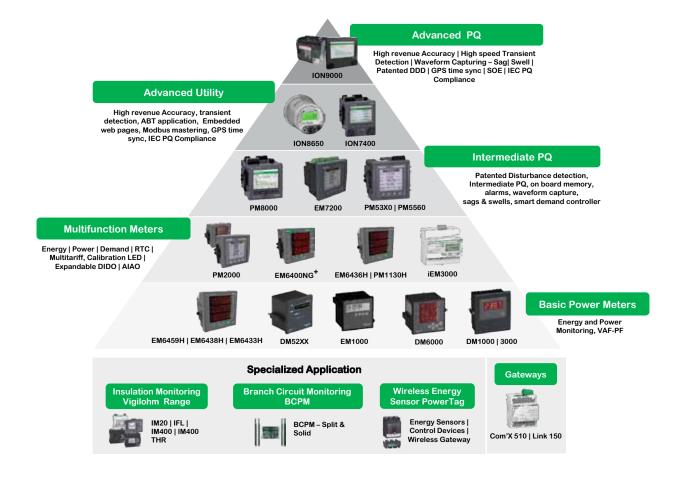
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# EcoStruxure Power: thrive in a digital world.

**Discover Our Power Monitoring Solutions** 



W.E.F. June 01st, 2021





- > 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 BCPM Provides Data Center Managers with Information to

Maximize uptime and avoid outages through advanced alarming capabilities

- > Set sensitivity parameters so an alarm is triggered when current approaches any breaker limit
- > Alarms distinguish between past events and alarm states that are still occurring
- Analyze the alarm history to assess areas that may need additional capacity to prevent issues

Effectively plan future infrastructure needs by providing historical usage data, to ensure that new infrastructure projects are sized correctly

- > Track usage at the circuit level
- > Develop reports on historical usage patterns
- > Use reporting to accurately predict future needs

#### Easily allocate costs

- Allocate costs based on per rack energy consumption
- > Track usage patterns and determine areas of potential savings
- > Create ongoing reporting structures to effectively manage costs



### **1.2 Insulation Monitoring Devices**

\*Price On Request

### Vigilohm Range of Insulation Monitoring Devices

#### Used in IT earthing arrangements, this solution

- Guarantees process continuity in case of earth fault,
- Improves staff and process safety, and
- > Optimizes maintenance.

#### 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

#### Key features

- > Fault detection and signalling
- > Insulation resistance value display
- > Transformer monitoring (current and temperature)
- > Modbus communication
- > Alarm log
- > Insulation fault remote indicator (audible & visual)
- > Electrical fault (transformer overload or circuit breaker tripping) remote indicator (audible & visual)
- > IEC 60364-4-41 : Electrical standards in buildings
- IEC 60364-7-10 : Requirements for special installations or locations Medical locations.
- > IEC 61557-8 : Insulation Monitoring Devices in IT earthing arrangement
- > IEC 61557-9 : Equipment for insulation fault location in IT earthing arrangements

# High-speed transient detection for your critical power networks

# PowerLogic<sup>™</sup> ION9000T

Meet the storyteller of your critical power networks - the PowerLogic ION9000T power quality meter. With high-resolution transient waveform capture, the meter identifies and characterizes high-speed transient voltages that often go undetected and can cause component damage or equipment failure. Modular design, flexible programming, and 0.1S accuracy give the ION9000T the adaptability needed for the IoT-enabled future. Onboard web pages provide meaningful, actionable EN50160 and IEEE519 power quality compliance data. The meters work natively with Ecostruxure™ Power Monitoring Expert to correlate facility-wide, system-level events for decisive power quality information and root cause analysis.

# High-speed transient detection

- Detection and capture of impulsive and oscillatory transients along with onboard power quality analysis
- Transient and disturbance waveform captures,  $\frac{1}{2}$  cycle RMS
- Patented disturbance direction detection (DDD) to identify event root cause

## Modular, flexible, and adaptable

- Multiple mounting options: DIN and panel with adapter plate
- Calibration pulses: on meter body
- Native plug-and-play support: for Ecostruxure<sup>™</sup> Power Monitoring Expert, Ecostruxure<sup>™</sup> Power SCADA Operation, ION Setup
- Two display options and field installable I/O option modules

## **Unprecedented accuracy**

• 0.1S accuracy: third-party certified, for a new benchmark in high performance metering

8 2:57 0

- Certified PQI-A (power quality instrument): complies with IEC 62586-1/-2
- Can uncover energy savings and contribute to a new competitive edge
- Ideal for even the most demanding environments

## **Cybersecurity features**

- Secure protocol support and security event logging that integrate with your architectures
- Helps minimize vulnerabilities to your critical power assets and systems and reinforce your security strategies

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



## 2.1 PowerLogic<sup>™</sup> ION9000T NEW

#### \*Price On Request

- High-speed transient detection with 10 MHz sampling, ability to measure up to 10 kV peak
- > Patented disturbance direction detection to identify event root cause
- > Unprecedented accuracy of 0.1S accuracy
- > Certified PQI-A (power quality instrument) complies with IEC 62586-1/-2
- > Modular, flexible, and adaptable
- > Secure protocol support and security event logging.
- > Onboard power quality analysis. Complies with: IEC61000-4-30 class A, IEC62586-1 / IEC62586-2, and verified by third-party lab certifications
- Extended waveform capture
- > High-speed RMS data capture for in-depth analysis of any PQ disturbance
- > Smart power event analysis
- > ION programmability technology allowing tremendous flexibility
- > Protects your infrastructure investment now and in the future
- > Green Premium eco-mark.
- > Makes your power network safer, more reliable, efficient, and compliant.

## 2.2 PowerLogic<sup>™</sup> ION9000

\*Price On Request

- > Summarize power quality, set targets, measure and verify results
- Large Color Display with high resolution
- > Modbus Master functionality to read from downstream Modbus devices and view it via the front panel
- Detect and capture transients as short as 20µs at 50Hz (17µs at 60 Hz)
   Power quality compliance monitoring JEC 61000-4-30 Class A test
- Power quality compliance monitoring IEC 61000-4-30 Class A, test methods as per IEC 62586-1/2.
- > 2 GB of standard non-volatile memory.
- > Trend curves and short-term forecasting of upcoming values for better decisions
- > Disturbance direction detection with results captured in the event log, with a timestamp and certainty level
- > 50+ definable alarms to log critical event data, trigger waveform recording, or perform control function.
- > Trigger on any condition, with 1/2-cycle and 1-second response time.
- > Support protocol: Modbus, ION, DNP3, DLMS, SNMP, and IEC 61850.
- Gateway functionality to access downstream meter's readings through ethernet
- > Time synchronization via GPS clock (RS-485) or IRIG-B (digital input) to ±1 millisecond.



Utility/ABT mater



8650

# 2.3 PowerLogic™ ION 8800 / 8650

- \*Price On Request
- > Utility grade accurate metering with IEC 62053-22/23 Class 0.2S with 1024 samples / cycle
- Power quality compliance monitoring for IEC 61000-4-30 Class A/S, EN50160, IEC 61000-4-7, IEC 61000-4-15, IEEE 1159, IEEE 519
- Power quality measurements with Individual Harmonics, sag swell, transient detection, waveform analysis & logging
- Digital fault recording by capturing voltage and current channels simultaneously for sub-cycle disturbances
- Complete communications through IEC1107 optical port or the optional communications module that supports concurrent Ethernet, serial, and modem communications
- > Transformer/line loss compensation for system losses in real time directly in the meter
- > Instrument transformer correction to save money and improve accuracy by correcting for less accurate transformers.



# The most versatile meter for your feeder applications

120.03v 4.334 A 0.064 km

92271

# PowerLogic ION7400

- Compact, 3-phase multifunction energy and power quality compliance meters
- Flexible and modular, with object-oriented intelligence
- Accurate, precise, and highly adaptable





# 2.4 PowerLogic<sup>™</sup> ION7400

# Compact energy and power quality meters for feeders or critical loads

## \*Price On Request

- > High quality, reliability, and accuracy: 3-phase power and energy measurements with power quality compliance monitoring, data and event logging, and alarming
- Industry-leading: Class 0.2S revenue metering and network management data
- Regulatory compliance: meets all North and South American requirements for utility metering
- Built-in intelligence: RTU polls downstream devices like relays or other telemetry devices
- > Exceptional adaptability: integrates into existing billing/SCADA systems
- Reduces downtime: pinpoints disturbances with disturbance direction detection as upstream or downstream of the meter
- > High degree of visibility to data and assets: allows for cost savings, rapid response time, and better decisions
- Monitors and logs parameters in support of multiple international PQ compliance measurement standards
- > Harmonics: high-resolution waveform capture and Flicker influence

# 2.5 PowerLogic<sup>™</sup> PM8000 Series

\*Price On Request

- Patent disturbance detection capability with Sag/Swell
   / Waveform capture technology
- > Ideal for high energy users
- > Revenue accuracy of Class 0.2S as per IEC 62053-22
- > High Sampling rate of 256 Samples / Cycle, Waveform recording, sag/swell monitoring
- > Modbus Master with Single RS485 port & Dual Ethernet
- > 512MB of standard non-volatile memory for Data and event logging
- > Harmonics Analysis upto 63rd for Voltage & current
- > GPS clock (RS485) or IRIG-B (digital input)
- O1 Serial port (Modbus, ION, DNP3) , Dual Ethernet port (Modbus/TCP, ION TCP, DNP3 TCP, IEC 61850 )
- > Standard Digital Input, Expandable Digital IO, Analog IO



# Simplifying power quality, maximizing versatility

PowerLogic<sup>™</sup> PM8000 series Power Quality Analyser

- Higher Sampling Rate: 256 Samples / Cycle
- Disturbance Direction Detection (DDD): Upstream / Downstream
- Sag/ Swell monitoring with Waveform Capturing functionality
- High Active Accuracy: Class 0.2S as per IEC 62053-22
- Dual Ethernet and 01 RS485 port with Modbus Mastering
- International PQ standards IEC 61000-4-30 Class S, IEC 62586 PQI-S

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## 3.1 PowerLogic<sup>™</sup> PM5000 Series Power Meters

- > IEC 61557-12 IEC for PMD (Power Measurement Devices)
- Accuracy Class 0.5S (PM51xx, PM53xx) and Class 0.2S (PM5560) -IEC Specifications
- > 4th CT for neutral and ground current measurement (PM5560)
  - **Dual Ethernet** ports for daisy chain communication (PM5560)
- > Internal webpage (PM5560)

>

- Individual Harmonics up-to 63rd (PM5560), 31st (PM53xx) & 15th (PM51xx) THD, TDD
- > Multi-tariff Schedules 4 tariffs (PM53xx) & 8 tariffs (PM5560)
- Two Relay outputs for circuit breaker monitoring & control (PM5330,PM5340)
- > Logging memory (PM53xx,PM5560)
- Peak demand with time stamping D/T for current and powers (PM53xx,PM5560)
- Demand prediction based on sliding, fixed and rolling block, thermal methods (All models)
- > Battery backed up Real Time Clock (All models)
- > Meter Insight-Through QR code
- > 2DI/2DO/2AI (PM5570), RCM (PM5660), Waveform capture and Sag Swell + 2DI/2DO (PM5650), Waveform capture and Sag Swell + 2DI/2DO + RCM (PM5760)

Product	Description	Reference	Unit MRP [₹]
PM 5560	Cl0.2S, 2 Ethernet + 1 RS485 Port, 4th CT, Webpage, 63rd Har- monic (magnitude & direction), 52 alarms, 4 DI, 2 DO, 8 multi tariff, 128 samples / cycle	30003008D	64836
PM 5340	Cl0.5S, 1 Ethernet, 31st harmonic, 2 DI, 2 DO, 2 RO, 35 Alarms, Data logging, 64samples / cycle	30003007D	37924
PM 5320	Cl0.5S, 1 Ethernet, 31st harmonic, 2 DI, 2 DO, 35 Alarms, Data log- ging, 64samples / cycle	30003005D	35347



# 3.2 Smart Demand Controller - EM7200 Series

- > Accuracy CL 0.2\*, 0.5S and Class 1.0 as per IEC 62053 21/22
- > CE / UL Certification as per IEC / UL61010 1 Ed 3
- > Versatile and fully user programmable, suitable for HT/LT with any CT/PT
- > 2 Digital inputs, 3 Form C Relay outputs for control
- > TOU for time enabled tariff users and auto resetting of energy parameters - weekdays, weekends, public holidays & offs.
- Import / Export option enables monitoring of bi-directional power flow (also called 4 - quadrant measurement)
- > Utility meter cross check
- > 19 demand profile settings for optimal demand planning
- > THD and individual harmonics up-to 15th
- Predictive demand, present demand, max demand with date/time stamp. 4 peaks and 4 lows

Product	Description	Reference	Unit MRP [₹]
EM 7290	Demand Controller Cl0.2* with RS485 Port	30002975	53362
EM 7280	Demand Controller Cl0.5S with RS485 Port	30002198	41627
EM 7230	Demand Controller Cl1.0 with RS485 Port	30002055	38424

\* Class 0.2S compliance available in 3ph,4w system

# The easy choice for quality, value, and simplicity.

EasyLogic<sup>™</sup> PM2000 series





- Dual Sourcing Utility or Solar or wind energy monitoring using the DI
- 12am (Configurable) Snapshot Volt, Amp, Power & Energy
- Rate Counters Configurable for Energy and KgCO2
- Expandable IO Module Digital IO/Analog IO
- Calibration and Heart beat LED on the front display



THE PULI





Multifunction Power and Energy meter with 12am snapshot and Rate counters (kgCO2 / Energy)

- > Energy Standard Class 0.5S /1.0 as per IEC 62053-22 / 21
- > Power quality analysis with THD & Ind. harmonics up to 31st
  - IO module integration (optional) Digital Input/ Output, Analog Input/ Output
  - Dual / Multi sourcing Capable of monitoring Utility & Genset/ Solar/Wind energy using the Multitariff and Digital Input.
  - 12am (Configurable) Snapshot Snapshot of Avg Volt, Avg Amp, Total active power & energy delivered as measured by the meter at 12am (Configurable) of every day.
  - Rate Counters Configurable rate counters for displaying kgCO2 or energy cost.
  - Onboard Data Logging Configurable logging up to 2 parameters
  - Per-phase, avg/ total of Volts, Amps, PF, THD, Hz, W, Wh, VA, VAh, VAR, VARh, Max Demand & Import / Export
  - Min/Max Monitoring with Date/Time stamping
  - Communication : Pulse output or RS485 port

Product	Description	Reference	Unit MRP [₹]
PM2230	PM2230, LCD, RS485, Accuracy Cl0.5S, 31st Ind.harmon- ics, 12am snap shot, kg CO2 and energy rate counters, Data logging	METSEPM2230D	27385
PM2220	PM2220, LCD, RS485, Accuracy Cl1, 15th Ind.harmonics, 12am snap shot, kg CO2 and energy rate counters	METSEPM2220D	25193
PM2130	PM2130, LED, RS485, Accuracy Cl0.5S, Ind. Harmonics up to 31st over communication, data logging	METSEPM2130D	26230
PM2K2DIDO*	Optional Digital IO card - 2 channel DI & DO for PM2000 Series	METSEPM2KDGTLIO22D	3112
PM2K1AIAO*	Optional Analog IO card - 1 channel AI & AO for PM2000 Series	METSEPM2KANLGIO11D	3690
PM2K2AIAO*	Optional Analog IO card - 2 channel AI & AO for PM2000 Series	METSEPM2KANLGIO22D	4495
PM2K2DI2RO*	EasyLogic <sup>™</sup> PM2x30 2DI2RO Module 2-IO	METSEPM2K2DI2ROD	Price On Request

\* Optional IO modules can be used for PM2230 & PM2130 models only. Maximum upto 1 module can be used per device at a time.



The all-new Hexa and EM6400NG<sup>+</sup> Series





# 4.1 Conzerv<sup>™</sup> EM6400NG<sup>+</sup> Series, The Next Generation Workhorse

Multifunction Energy meter with NextGen features like Harmonics & Min/Max Monitoring, Digital security

- > Energy Standard Class 0.2/0.5S/1 as per IEC 62053-22 / 21
- Power quality analysis with THD & individual harmonics upto 15th over communication
- > 13 different wiring configuration scheme
- Volts, Amps, PF, THD, F, W, Wh, VA, VAh, Var, Varh, Runhrs, Onhrs, Interupts, Preloaded Demand & Import /Export
- > Min/Max Monitoring with Date/Time stamping
- > Calibration LED and Heart beat LED for communication Status
- > **Communication:** POP or RS485 port

Product	Description	Reference		Unit MRP [₹]
EM6400NG+	Class accuracy Cl0.2, RS485 port	METSEEM6400NGRSCL2		28768
EM6400NG+	Class accuracy Cl0.5S, RS485 port	METSEEM6400NGRSCL5		23108
EM6400NG+	Class accuracy Cl1.0, RS485 port	METSEEM6400NGRSCL1	☑	18240
EM6400NG+	Class accuracy Cl0.5S, POP	METSEEM6400NGPOCL5		15801
EM6400NG+	Class accuracy Cl1.0, POP	METSEEM6400NGPOCL1	☑	14305

Old EM6400 Reference	Equivalent EM6400NG <sup>+</sup> Reference
30002021	METSEEM6400NGPOCL1
30002065	METSEEM6400NGPOCL1
30002072	METSEEM6400NGPOCL1
30002081	METSEEM6400NGPOCL1
30002022	METSEEM6400NGPOCL5
30002034	METSEEM6400NGPOCL5
30002049	METSEEM6400NGPOCL5
30002050	METSEEM6400NGPOCL5
30002064	METSEEM6400NGPOCL5
30002085	METSEEM6400NGPOCL5
30002088	METSEEM6400NGPOCL5
30002002	METSEEM6400NGRSCL1
30002012	METSEEM6400NGRSCL1
30002077	METSEEM6400NGRSCL1
30002078	METSEEM6400NGRSCL1
30002246	METSEEM6400NGRSCL1
30002027	METSEEM6400NGRSCL2
30002066	METSEEM6400NGRSCL2
30002089	METSEEM6400NGRSCL2
30002097	METSEEM6400NGRSCL2
30002101	METSEEM6400NGRSCL2
30002102	METSEEM6400NGRSCL2
30002104	METSEEM6400NGRSCL2
30002106	METSEEM6400NGRSCL2
30002109	METSEEM6400NGRSCL2
30002257	METSEEM6400NGRSCL2
30002347	METSEEM6400NGRSCL2
30002911	METSEEM6400NGRSCL2

Old EM6400 Reference	Equivalent EM6400NG <sup>+</sup> Reference
30002912	METSEEM6400NGRSCL2
30002913	METSEEM6400NGRSCL2
30002914	METSEEM6400NGRSCL2
30002915	METSEEM6400NGRSCL2
30002916	METSEEM6400NGRSCL2
30002917	METSEEM6400NGRSCL2
30002918	METSEEM6400NGRSCL2
30002919	METSEEM6400NGRSCL2
30002920	METSEEM6400NGRSCL2
30002921	METSEEM6400NGRSCL2
30002922	METSEEM6400NGRSCL2
30002923	METSEEM6400NGRSCL2
30002924	METSEEM6400NGRSCL2
30002925	METSEEM6400NGRSCL2
30002001	METSEEM6400NGRSCL5
30002019	METSEEM6400NGRSCL5
30002036	METSEEM6400NGRSCL5
30002040	METSEEM6400NGRSCL5
30002041	METSEEM6400NGRSCL5
30002042	METSEEM6400NGRSCL5
30002051	METSEEM6400NGRSCL5
30002056	METSEEM6400NGRSCL5
30002057	METSEEM6400NGRSCL5
30002069	METSEEM6400NGRSCL5
30002082	METSEEM6400NGRSCL5
30002083	METSEEM6400NGRSCL5



## 5.1 Hexa Series EM64XXH and PM1130H Meters

Load Managers, Power & Energy, Dual Source Multifunction meters

- > Energy Accuracy Class 0.5 / 1.0 as per IEC 62053-22 / 21
- > Single and Multisource range of devices
- > Dual Sourcing with demand Monitoring, THD% for voltage & Current, 01 Relay Contact.
- > Configurable Favorite Page.
- > Sampling Rate of 32 Samples / Cycle.
- > Onsite Calibration Verification Calibration LED.
- > Heart beat LED for communication status & meter healthiness.
- > Modus RS485 communication port.
- > Communication Disable from the front panel of the Meter.
- > Multi colored analog load bar with over load indication.
- > Configurable Password for secured setup of the device.

Product	Description	Reference		Unit MRP [₹]
PM1130H	EASYLOGIC <sup>™</sup> PM1130H Dual Source Power & Energy Meter, Class accuracy 0.5, 01 Relay Contact, 01 RS485 port	METSEPM1130HCL05RD		16628
EM6438H	CONZERV™ EM6438H Dual Power & Energy Meter, Class accuracy 0.5, 01 RS485 port	METSEEM6438HCL05RS		8167
EM6438H	CONZERV™ EM6438H Dual Power & Energy Meter, Class accuracy 1.0, 01 RS485 port	METSEEM6438HCL10RS	☑	7582
EM6436H	CONZERV™ EM6436H VAF+ PF + Power & Energy Meter, Class accuracy 0.5, 01 RS485 port	METSEEM6436HCL05RS		12182
EM6436H	CONZERV™ EM6436H VAF+ PF + Power & Energy Meter, Class accuracy 1.0, 01 RS485 port	METSEEM6436HCL10RS	☑	10612
EM6436H	CONZERV™ EM6436H VAF+ PF + Power & Energy Meter, Class accuracy 1.0	METSEEM6436HCL10NC		9079
EM6433H	CONZERV <sup>™</sup> EM6433H A+ Power & Energy Meter, Class accuracy 0.5, 01 RS485 port	METSEEM6433HCL05RS		7574
EM6433H	CONZERV™ EM6433H A+ Power & Energy Meter, Class accuracy 1.0, 01 RS485 port	METSEEM6433HCL10RS	☑	7135
EM6459H	CONZERV <sup>™</sup> EM6459H VAF+ PF Digital Meter, Class accuracy 0.5, 01 RS485 port	METSEEM6459HCL05RS		8047
EM6459H	CONZERV™ EM6459H VAF+ PF Digital Meter, Class accuracy 1.0, 01 RS485 port	METSEEM6459HCL10RS	☑	7549
EM6459H	CONZERV™ EM6459H VAF+ PF Digital Meter, Class accuracy 1.0	METSEEM6459HCL10NC		5896

Old EM64xx Reference	Equivalent Hexa Reference
30002277	METSEPM1130HCL05RD
30002278	METSEPM1130HCL05RD
30002306	METSEPM1130HCL05RD
30002351	METSEPM1130HCL05RD
30002438	METSEPM1130HCL05RD
30002305	METSEPM1130HCL05RD
30002437	METSEPM1130HCL05RD
30002026	METSEEM6438HCL10RS
30002269	METSEEM6438HCL05RS
30001999	METSEEM6436HCL10RS
30002892	METSEEM6436HCL10RS
30001994	METSEEM6436HCL10NC
30002295	METSEEM6436HCL10NC
30002893	METSEEM6436HCL10NC
30002015	METSEEM6436HCL05RS
30002203	METSEEM6436HCL05RS
30002204	METSEEM6436HCL05RS
30002205	METSEEM6436HCL05RS
30002201	METSEEM6436HCL05RS

Old EM64xx Reference	Equivalent Hexa Reference
30002930	METSEEM6436HCL05RS
30002931	METSEEM6436HCL05RS
30002932	METSEEM6436HCL05RS
30002933	METSEEM6436HCL05RS
30002016	METSEEM6433HCL10RS
30002031	METSEEM6433HCL10RS
30002000	METSEEM6433HCL05RS
30002336	METSEEM6433HCL05RS
30002436	METSEEM6433HCL05RS
30002926	METSEEM6433HCL05RS
30002927	METSEEM6433HCL05RS
30001804	METSEEM6459HCL10RS
30002008	METSEEM6459HCL10NC
30002220	METSEEM6459HCL05RS
30002221	METSEEM6459HCL05RS
30002224	METSEEM6459HCL05RS
30002934	METSEEM6459HCL05RS
30002935	METSEEM6459HCL05RS
30002936	METSEEM6459HCL05RS

\* Few references may not be the exact equivalent, Please contact local sales represnentative before ordering.



# 5.2 Hexa Series LCD Range: OEM Specialized applications

EasyLogic<sup>™</sup> EM1220H | PM1225H | PM1230H meters are ideal replacements for multiple analog meters for stand-alone metering in OEM Panel Boards, Genset panels, Motor Control Centers, power factor improvement panels

- > Energy Accuracy Class 0.5 / 1.0 as per IEC 62053-22 / 21
- > Single and Multisource range of devices
- > Power quality analysis (THD %) | Phase angle between the voltage and current
- > 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
- Suppression current: To disregard the measurement of induced and panel auxiliary load current in the circuit (settable from 5 to 99 mA).
- > Protective cover: Tamper-proof terminal screws do not detach from housing.
- Control power options: Universal range 44 to 300V LN AC/DC or Low voltage DC control power option of 9 to 36V DC
- Sampling Rate of 32 Samples / Cycle
- > Onsite Calibration Verification Calibration LED
- > Heart beat LED for communication status & meter healthiness.
- > Modbus RS485 communication port
- > Communication Disable from the front panel of the Meter
- Configurable Password for secured setup of the device
- Smart line indicators in LCD display meter to check the presence of input supply voltage

Product	Description	Reference	Unit MRP [₹]
PM1230H	EasyLogic™ PM1230H Dual Source Power & Energy, Class Accuracy 0.5, 01 RS485 Port	METSEPM1230HCL5	15846
PM1225H	EasyLogic™ PM1225H Restricted MFM Meter, Class Accuracy 0.5, 01 RS485 Port	METSEPM1225HCL5	21997
PM1225H	EasyLogic™ PM1225H Restricted MFM Meter, Class Accuracy 1.0, 01 RS485 Port	METSEPM1225HCL1	17362
EM1220	EasyLogic™ EM1220H Load Manager, Class Accuracy 0.5, 01 RS485 Port	METSEEM1220HCL5	11685
EM1220	EasyLogic™ EM1220H Load Manager, Class Accuracy 1.0, 01 RS485 Port	METSEEM1220HCL1	10179

# Stay on top of it with **PowerTag**

# 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.



PowerTag

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Schneider

IC60N

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## se.com/powertag

\* 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 i 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	8270
PowerTag	PowerTag Energy M63 1P+N Top	A9MEM1521	8270
PowerTag	PowerTag Energy M63 1P+N Bottom	A9MEM1522	8270
PowerTag	PowerTag Energy M63 3P	A9MEM1540	16694
PowerTag	PowerTag Energy M63 3P+N Top	A9MEM1541	16694
PowerTag	PowerTag Energy M63 3P+N Bottom	A9MEM1542	16694
PowerTag	PowerTag Energy F63 1P+N	A9MEM1560	9087
PowerTag	PowerTag Energy F63 3P+N	A9MEM1570	18196
PowerTag	PowerTag Energy Sensor 63A -3P/3P+N	A9MEM1573	17330
PowerTag	PowerTag Energy Sensor 160A -F160 - 3P/3P+N	A9MEM1580	22378
PowerTag	PowerTag Energy Sensor Rope 200A - R200 - 3P/3P+N	A9MEM1590	41929
PowerTag	PowerTag Energy Sensor Rope 600A - R600 - 3P/3P+N	A9MEM1591	43810
PowerTag	PowerTag Energy Sensor Rope 800A - R1000 - 3P/3P+N	A9MEM1592	46831
PowerTag	PowerTag Energy Sensor Rope 2000A - R2000 - 3P/3P+N	A9MEM1593	49097



## 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	28690
PowerTag	ENERGY SENSOR POWERTAG NSX - 250A 3P+N	LV434021	31444
PowerTag	ENERGY SENSOR POWERTAG NSX - 630A 3P	LV434022	49588
PowerTag	ENERGY SENSOR POWERTAG NSX - 630A 3P+N	LV434023	54311



## 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	39740
Smartlink	Smartlink SI-D	A9XMWD20	23313
Smartlink	Smartlink SI-B	A9XMZA08	44701

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

W.E.F. June 01st, 2021

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# 6.4 Communication Auxiliaries

Description	Reference	Unit MRP [₹]
Mounting Kit for Din Rail	A9XMFA04	1625
Prefabricated Cables M	A9XCAM06	6002
Locking Clips for Multiclip 80	A9XMLA02	708
Connectors 5 Pin	A9XC2412	8268
Prefabricated Cables L	A9XCAL06	6825
Prefabricated Cables S	A9XCAS06	5942
SEMI - Prefabricated Cables U	A9XCAU06	4102



Schneider Electric's new DIN rail mount meters are compact, versatile, high performance devices that confirm to exacting IEC standards with the added benefits of being i. Easy to install ii. Easy to modify and iii. Easy to maintain

# 7.1 PowerLogic<sup>™</sup> PM3200 Series CI 0.5S Power Meters MV / LV Distribution

- Know network health through all measurement parameters (I, In, U, V, PQS, E, PF, Hz, THD)
- Four-quadrant metering to differentiate energy
   Target green technologies (delivered/received)
  - Help reduce utility penalties (active/reactive)
- > Up to 4 different time slots to manage multiple tariffs
  - Peak, off-peak, workday, weekend
- > DI/DO provide access to other areas of the electrical network & allow for more applications
  - · WAGES counting, remote reset, tariff control and energy pulse outputs
  - status input (circuit breaker trip or panel door opening), DO alarm for sound or light alert
- Data logging (PM3255)
  - Save last 32 days, last 20 weeks and last 13 months consumption data in separate registers
  - Longer historical record helps create an accurate load profile, making benchmarking and trending easier

Product	Description	Reference	Unit MRP [₹]
PM 3255	Din rail Power meter Modbus	METSEPM3255	18248
PM 3210	Din rail Power meter pulse	METSEPM3210	16629



iEM31xx: 63A direct connect - Cl1.0 iEM32xx: 1A / 5A CT connect - Cl0.5S iEM33xx: 125A direct connect - Cl1.0

# 7.2 PowerLogic<sup>™</sup> iEM3000 Series Class Meters - LV Distribution

iEM3110 iEM3210 iEM3310

- > Total kWh
- Partial kWh + dateand time of last resetPulse output up to
- 1000pulse/kWh
- > 1 Digital Out> Date and time of last
- Date and time of last reset
   MID logal metrology
- > MID legal metrology certification

iEM3150 iEM3250 iEM3350

- > Modbus
- > Total kWh
   > Partial kWh + date and time of last reset
- > Self powered
- > By communication: kWh, A, V, kW, PF

### iEM3165, 3175 iEM3265, 3275

- > Total kWh, kVAr
- > Four quadrant
- > Partial kWh+ date and time of last reset
- > By communication: kWh, kVArh, P,Q,
   S, Kv, PF, 4 tariffs,
   digital input status,
   date/clock
- > 1 DI for circuit breaker status, input WAGES, 1 DO

# iEM 33xx - Cl1.0 , Direct current 125 A , Din Rail Meter

Product	Description	Reference	Unit MRP [₹]
iEM33xx	Three Phase, 125A Direct Current, BACnet	A9MEM3365	22238
iEM33xx	Three Phase, 125A Direct Current, Modbus	A9MEM3350	18922
iEM33xx	Three Phase, 125A Direct Current, PulseO/P	A9MEM3310	17853

# Three phase CT Operated, Din Rail Meter / Direct Current-Three phase (upto 63A)

Product	iEM 32xx C	iEM 32xx Cl0.5S CT		iEM 31xx Cl1.0 - Direct current	
Flound	Reference	Unit MRP [₹]	Reference	Unit MRP [₹]	
iEM 3x65	A9MEM3265	19276	A9MEM3165	18702	
iEM 3x55	A9MEM3255	13511	A9MEM3155	14928	
iEM 3x50	A9MEM3250	12669	A9MEM3150	14090	
iEM 3x10	A9MEM3210	11606	A9MEM3110	12898	



## Com'X 510 Energy management in a box

- Com'X 510 collects and stores consumption of WAGES (water, air, gas, electricity and steam) and environmental factors like temperature, humidity, and CO2 levels.
- Its embedded energy management software provides immediate visibility of energy consumption that helps identify opportunities for saving energy and lowering power bills.
- > Users can analyze real-time and historical data, provide stakeholders with a comprehensive view of their energy usage.

# 8.1 Ethernet Communication Gateway Server / Converters



- > Dual Ethernet
- > Onboard storage
- > Wireless WiFi / GPRS Support
- > Cloud hosted platform
- > Local and Customized Web pages with trending and dashboard visualization
- > Modbus Gateway
- > On-Board 6 DI, 2 AI



- Protocol Converter from Modbus RS485 to TCP/IP
- > Two (2) Ethernet ports for daisy chain Ethernet
- > Setup through built-in web pages
- > HTTP, HTTPS, FTP, SMTP, IPV6 Support
- > 24V DC and/or POE power supply

Product	Description	Reference	Unit MRP [₹]
ComX'510	Energy Gateway Server – EMS in a BOX	EBX510	57530
Link150	Protocol Converter	EGX150	32149

# 8.2 Ethernet – TCP/IP Protocol Meters & Accessories

Product	Description	Reference	Unit MRP [₹]
ION Products	ION 8800, ION 8650, ION 9000T, ION 9000, PM8000 with Ethernet		On Request
PM 5560	Two Ethernet ports with single IP, CI0.2S, Web dashboard	30003008D	64836
PM 5340	One Ethernet port, 2 Digital Inputs, 2 Digital Outputs, 2 Relays	30003007D	37924
PM 5320	One Ethernet port, 2 Digital Inputs, 2 Digital Outputs	30003005D	35347

# Accesories for Power Monitoring

Description	Reference	Unit MRP [₹]
Adaptor Plate 144X144 mm	30000089	101
ELF adaptor plate	30001808	61
DM52XX Tamper protection kit - Set of 36 nos in 01 KIT	METSEDM5240TK	1139
IP65 protection cover for PM5XXX, PM2XXX, NG <sup>+</sup> and Hexa	METSEIP65OP96X96FD	On Request



## 9.1 ELF32xx Series - VAF, Power & Energy Meters

- Accuracy Cl1.0, Cl0.5
- Aux Supply 80 to 270Vac
- > Size 96X48mm
- > Parameters VAF, W/VA/VAr/PF
  - a) ELF3259 VAF meter
  - b) ELF3234 W/VA/VAr/PF
  - c) ELF3234\_3 W/VA/VAr & PF

Product	Description	Reference	Unit MRP [₹]
ELF3234-3	ELF3234-3 CI0.5	30000619	7143
ELF3234	ELF3234 CI0.5	30000621	6113
ELF3259	ELF3259 CI0.5	30000620	3068
ELF3234-3	ELF3234-3 CI1.0	30000409	5706
ELF3234	ELF3234 CI1.0	30000859	4889
ELF3259	ELF3259 CI1.0	30000860	2447

# 10. Specialized Counter Energy Meters - Conzerv™ DM52xx



## 10.1 \*Conzerv™ DM52xx

- > Accuracy Cl1.0, Cl0.5
- > Pulse output for effective WAGES tracking on EMS systems
- > 3P4W & 3P3W wiring options

Product	Description	Unit MRP [₹]
30002666	DM5240 0.5 415V-415V 100-1A 240VAX	5538
30002707	DM5240 1.0 415V-415V 1-1A 240VAX	4714
30002622	DM5240 1.0 415V-415V 40-5A 240VAX	4670
30002506	DM5240 1.0 415-415V 100-5A 240AX	4670
30002626	DM5240 1.0 415V-415V 3200-5A 240VAX	4670
30002505	DM5240 1.0 415-415V 5-5A 240AX	4670
30002655	DM5240 1.0 415V-110V 5-5A 110VAX	4714
30002661	DM5240 1.0 415V-110V 100-5A 240VAX	4714

\* For DM5240 quoted references here only shall be available for ordering

# 11. LCD Display Energy Meters & VAF+PF Meters



## High durability, sleek LCD display energy & VAF+PF meters

## 11.1 EM1000 / EM1200 Series

- > Accuracy Cl0.5, Cl1.0
- > Parameters KW, KWh & PF
- > Pulse output for basic tracking on EMS systems
- > RS 485 for native integration into EMS

Product	Description	Reference		Unit MRP [₹]
EM1200	EM1200 CI0.5 RS	30002572		4784
EM1000	EM1000 CI0.5 POP	30002571		4106
EM1200	EM1200 CI1.0 RS	30002565	☑	3943
EM1000	EM1000 CI1.0 POP	30002568		3248

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# 11.2 DM 6100 Series – VAF, PF Meters

- > Accuracy Cl0.5, Cl1.0
- > DM6100 VAF, PF meter
- > DM6300 VAF, PF meter with RS 485 port

Product	Description	Reference	Unit MRP [₹]
DM6300	DM6300 CI0.5 RS	30002570	3961
DM6100	DM6100 CI0.5	30002569	3126
DM6300	DM6300 CI1.0 RS	30002566	3772
DM6100	DM6100 CI1.0	30002567	2978

# 12. CE compliance - Volt/Amp/ frequency meter



## 12.1 EasyLogic<sup>™</sup> DM3000 / DM1000

- > CE compliance as per latest IEC 61010-1
- > 50Hz or 60Hz
- > AC or DC control power
- > LED indicators for phase identification in 3-ph meters
- > Plus all features of Conzerv range DM3000 / DM1000

Product	Description	Reference	Unit MRP [₹]
DM3210	Three phase Voltmeter CI0.5	30002965	2783
DM3110	Three phase Ammeter CI0.5	30002964	2783
DM1210	Single phase Voltmeter CI0.5	30002962	1888
DM1110	Single phase Ammeter CI0.5	30002961	1888
DM1310	Frequency meter CI0.2	30002963	1437

# 13. Just the Basics - Voltage / Ampere / Frequency Meters



## 13.1 Conzerv<sup>™</sup> DM3000 / DM1000

#### Accuracy

- > Volts & Amps CI 0.5/CI1.0
- > Frequency 0.2
- > True RMS values

#### Bright red LED Display

- > Full 4 Digits, 0.1% Resolution
- > 14mm height, 7 segment

#### User-friendly

- > Auto exit from setup
- > Elegant ergonomic design
- > Intuitive dual function key
- > Bright LED indicators Kilo & Phase indications for measured value

Product	Description	Reference	Unit MRP [₹]
DM3210	Three phase Voltmeter CI0.5	30002462	2269
DM3110	Three phase Ammeter CI0.5	30002461	2269
DM3210	Three phase Voltmeter CI1.0	30002386	1813
DM3110	Three phase Ammeter CI1.0	30002385	1813
DM1210	Single phase Voltmeter CI0.5	30002460	1536
DM1110	Single phase Ammeter CI0.5	30002459	1536
DM1210	Single phase Voltmeter CI1.0	30002366	1141
DM1110	Single phase Ammeter CI1.0	30002365	1141
DM1310	Single phase Frequency Cl0.2	30002367	1141

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