HDPM6000B
Technical Data Sheet

HDPM6000B uses the PowerLogic™ HDPM6000 platform to provide voltage measurement, data logging and full Ethernet communication

The HDPM6000B is built on the HDPM6000 platform, which provides power quality analysis with waveform capture, voltage and current Total Harmonic Distortion (THD). HDPM6000B features utility grade accuracy metrics for amps, volts, power factor, kW and kWh and monitors the ambient temperature and humidity via add-on sensor. Each unit can monitor either four or eight circuits and supports 120/208 V, 240/416 V, 230/400 V and 277/480 V busway systems. HDPM6000B supports standard CT sizes from 75 to 4000 amps, all from the same board.

Combine up to 24 four-circuit or eight-circuit modules for up to 192 circuits.

The flexible design of the HDPM6000 platform is ideal for today's environment of constant additions, continual moves and location adjustments. Its design allows for easy installation, as well as simple integration and operation. Stocked with a common chipset, web-based UI and upgradeable firmware, the HDPM6000 platform delivers a high quality power metering solution.

Applications

Ideal for large building applications such as data centers, industrial facilities, infrastructure and other similar environments.

Market solutions

Markets that benefit from a solution with HDPM6000B include:

- Data centers
- Industrial facilities
- Healthcare facilities
- Manufacturing

Benefits

- Modular platform approach provides scalability and minimizes integration costs, start up time and operational expenses.
- Provides power quality metrics down to the branch circuit allowing users to effectively monitor circuit loads, manage power consumption, allocate energy costs and maximize uptime across their facilities.
- Makes energy and power quality data immediately actionable and relevant to operational and sustainability goals

Competitive advantages

- Asset management
  - Identify increased harmonics in the rack servers to detect a potential disruption
  - Total Harmonics Distortion
  - Waveform capture
- Display and web page visualization
  - Optional touchscreen display accesses meter data
  - User-friendly web interface allows configuration of branch circuits and commissioning of meter system
- Data logging and software monitoring
  - Data logging and on-board memory storage
  - EcoStruxure™ PME and Power Operation integration
- Busway solution
  - Modular, distributed architecture meets data center requirements in an all-in-one solution

Power management solutions

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

HDPM6000B

Measurements

- Current per branch and sum of all phases
- Energy (kWh) per branch and sum of all phases
- Real Power (kW) per branch and sum of all phases
- Apparent Power (kVA) per branch and sum of all phases
- Reactive Power (kVAR) per branch and sum of all phases
- Real Power (kW) demand per circuit
- Current waveform capture
- Current THD
- Power factor (sign indicates leading or lagging current), per branch and average of all phases for multi-phase circuits

Features guide

Web interface	For configuration and live data access
Supported protocols	Modbus TCP/IP, SNMP, BACnet
Data storage	Min. 8 GB SD card to store log data and waveform captures provided
Alarms	On-board user-configurable alarms and alerts
Input	One-wire temperature and humidity sensor input
Display	Seven-segment display of address or serial number
Power quality analytics	Waveform capture and current THD

Technical specifications

Electrical Characteristics	
Supply voltage	24 VDC supplied from the HDPM6000 via bus port CAT6 cable
CT support	UL 2808, 20-4000 A with internal burdened resister and 250 mV signal (no shorting blocks required)
CT options	Solid-core or split-core type current transformers with a maximum voltage of 480 V.
Bus cabling	CAT6, maximum of 51.2 m (168 ft.) total cable length
Environmental Characteristics	
Operating temperature	-20 to 60 °C (-68 to 140 °F)
Storage temperature	-40 to 85 °C (-40 to 185 °F)
Relative humidity	5 to 90% non-condensing
Maximum operating altitude	2,000 m (6562 ft.)
Non-operating altitude	15,000 m (49213 ft.)
Noise level	< 65 dba at six ft. (72 in.) from the HDPM6000
Mounting location	Not suitable for wet locations. For indoor use only.

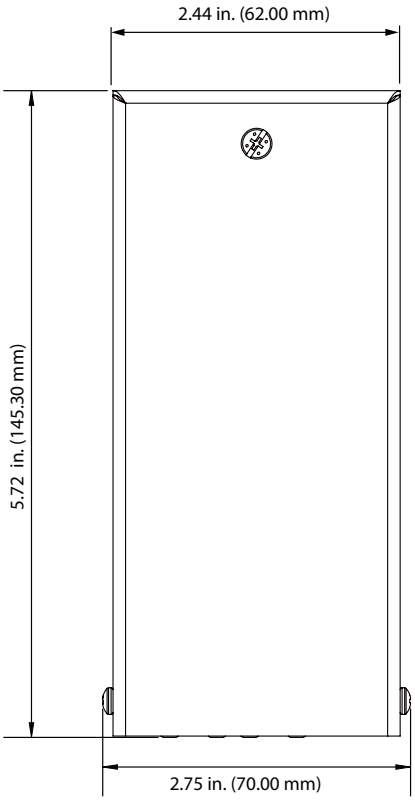
Standards		
Description	**General Standard**	**Reference Standard**
Radiated emissions	IEC/EN 61326-1 :2020 (Industrial Electromagnetic Environment)	CISPR 11 AC port inc A1
Conducted emissions, AC port (1)		
Conducted emissions, telecom port		
Radiated RF immunity		IEC/EN 61000-4-3
Fast transient bursts		IEC/EN 61000-4-4*
Conducted immunity		IEC/EN 61000-4-6
Power frequency magnetic field		IEC/EN 61000-4-8
Voltage dips and interruptions		IEC/EN 61000-4-11

**The device may experience measurement accuracy deviation. Contact Schneider Electric technical support for more information.*

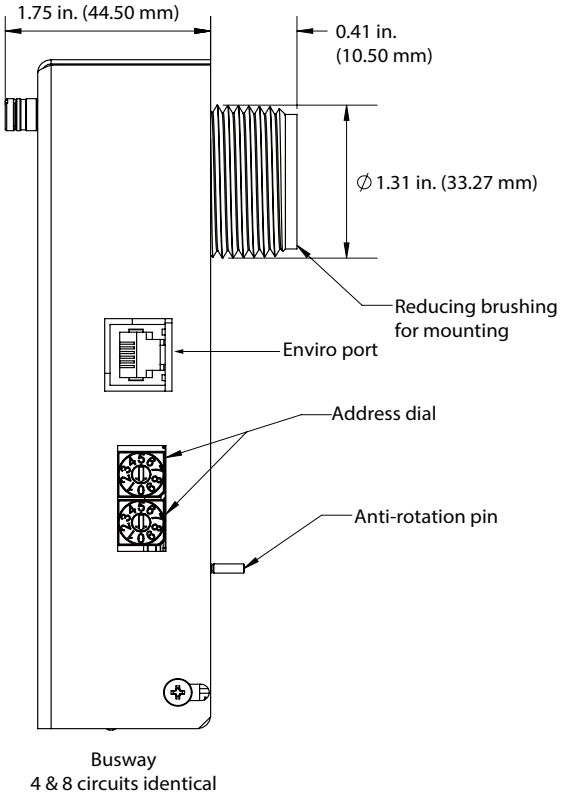
Dimensions

HDPM6000B Busway Module with Busway Tap Box mount

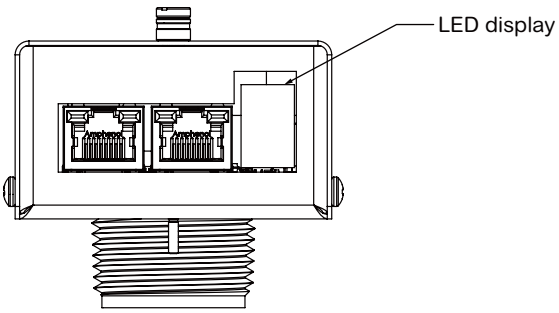
Top view



Side view



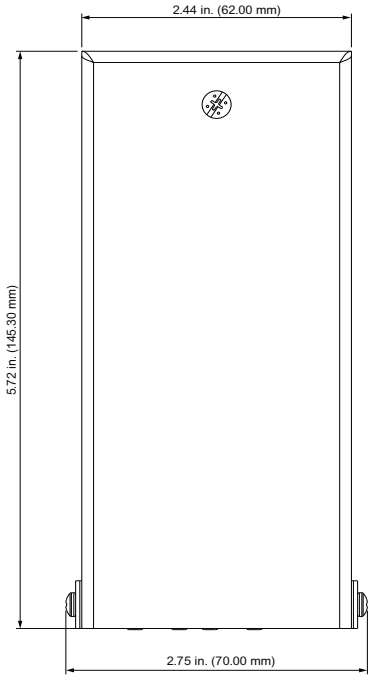
Front view



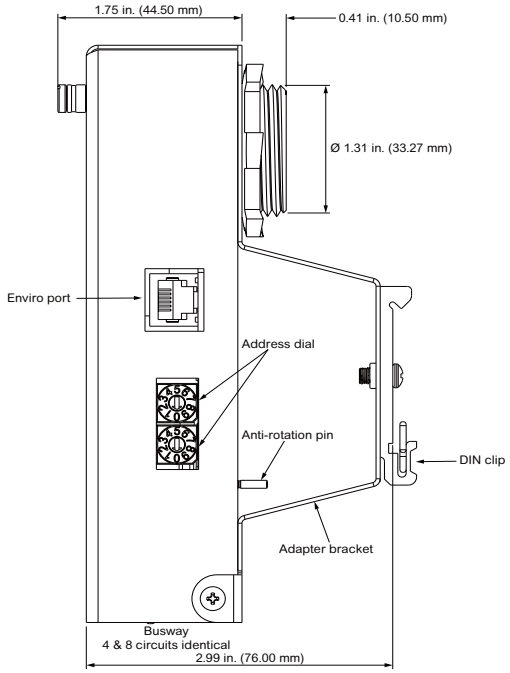
Dimensions

HDPM6000B Busway Module with DIN mount

Top view



Side view



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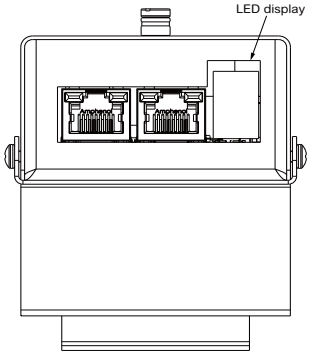

Commercial References

Model	Description
HDPM6000B Busway Modules	
METSEHDPM6BT4	HDPM 4 Ckt Busway Module with Busway Tap Box mount
METSEHDPM6BT8	HDPM 8 Ckt Busway Module with Busway Tap Box mount
METSEHDPM6BT8DIN	HDPM 8 Ckt Busway Module with DIN mount
HDPM6000 Head Unit	
METSEHDPM6S480VC	HDPM 50 / 60 Hz up to 480 v
HDPM6000 Temperature and Humidity Sensors	
METSEHDPMTEMP08B	HDPM Temperature Sensor with 8ft Blue Cable
METSEHDPMTEMP08Y	HDPM Temperature Sensor with 8ft Yellow Cable
METSEHDPMTEMP12B	HDPM Temperature Sensor with 12ft Blue Cable
METSEHDPMTEMP12Y	HDPM Temperature Sensor with 12ft Yellow Cable
METSEHDPMTEMP25B	HDPM Temperature Sensor with 25ft Blue Cable
METSEHDPMTEMP25Y	HDPM Temperature Sensor with 25ft Yellow Cable
METSEHDPMTEMPHM25B	HDPM Temperature and Humidity Sensor with 25ft Blue Cable
METSEHDPMTEMPHM25Y	HDPM Temperature and Humidity Sensor with 25ft Yellow Cable
METSEHDPMTEMPHM06B	HDPM Temperature and Humidity Sensor with 6ft Blue Cable
METSEHDPMTEMPHM06Y	HDPM Temperature and Humidity Sensor with 6ft Yellow Cable
HDPM6000 CT's	Refer to HDPM6000 CT manual for full list
Power Supplies	
METSEHDPM6PSV240*	HDPM PS 24 VDC 60 watt
METSEHDPM6PSV500*	HDPM PS 24 VDC 90 watt

**Phoenix Contact power supply.*

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Design: Schneider Electric
Photos: Schneider Electric

HDPM6000B Busway Meter
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