HDPM6000 I/O Module Technical Data Sheet

Expansion input/output module

The I/O Module is built on the HDPM6000 platform technology and is available to add digital and analog inputs, as well as a digital output to the connected system.

Powered by the HDPM6000 platform, the I/O Module provides two digital inputs, one analog input (10 VDC), one relay output and one CT input. The HDPM6000 head unit outputs data directly to your network and the analog/digital points can integrate with any BMS or DCIM system via Modbus TCP/IP, SNMP and BACnet/IP.

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 HDPM6000 I/O Module 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

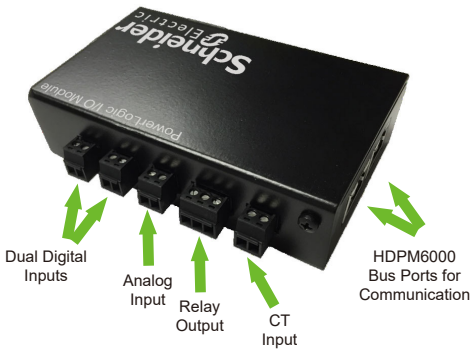
Competitive advantages

- 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

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.

HDPM6000 I/O Module



Inputs & Outputs

- Digital Input 1: Dry contact to monitor accessory equipment
- Digital Input 2: Dry contact to monitor accessory equipment
- Analog Input 1: 0 to 10 VDC sensor input
- Relay Output: Form-C (NO, NC, Common)
- Current Transformer Input: 0 to 250 mVac (CT output)
- HDPM6000 Bus Ports: Two RJ-45 ports for daisy chaining and connection to the HDPM6000 head unit

Technical specifications

Electrical Characteristics	
Supply voltage	24 VDC supplied from the HDPM6000 head unit via bus port CAT6 cable
Relay Output, Form C contact	30 VDC @ 1 A 48 VAC @ 0.5 A
Digital inputs	5 VDC, 11 mA max supplied across dry contact input. Dry contact impedance maximum 50 ohms.
Analog input	0 to 10 VDC, 0.05V accuracy, 0.01 V resolution
Power supply	For the HDPM6000 head unit, use power supply module specified in HDPM6000 literature. Use <3 m power supply cable. Use <30 m shielded cable.
Current Transformer (CT) input	0 to 250mV rms signal (no shorting blocks required)
CT options	UL 2808, solid-core or split-core type current transformers
Environmental Characteristics	
Operating temperature	-20 to 60 °C (-68 to 140 °F)
Storage temperature	-20 to 70 °C (-68 to 158 °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.

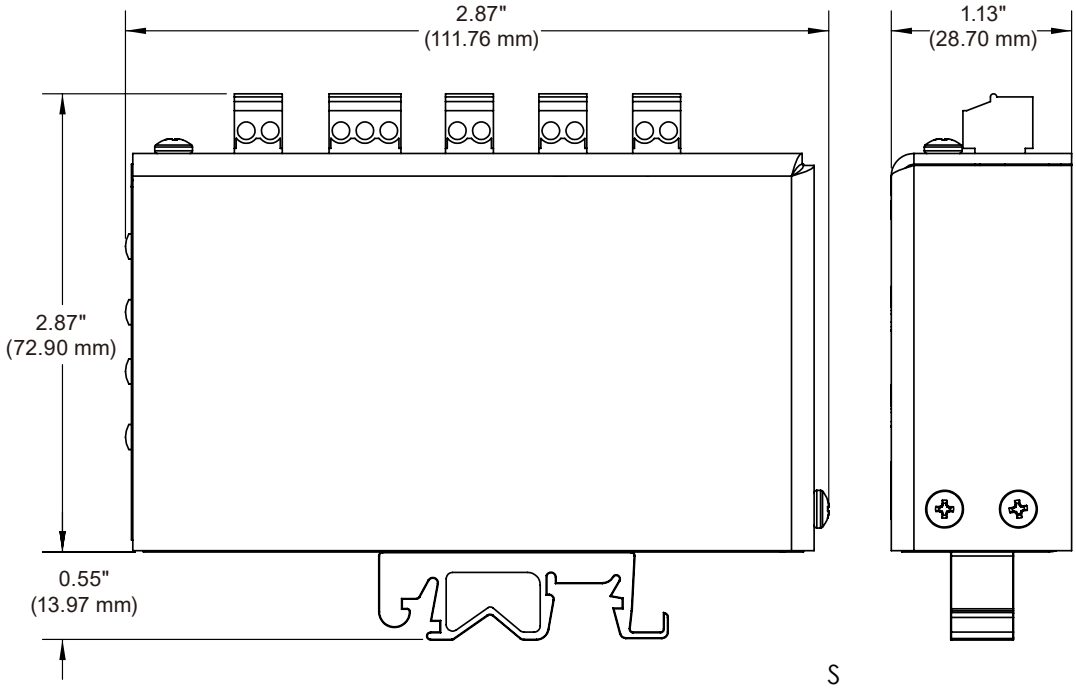
Standards		
Description	**General Standard**	**Reference Standard**
Radiated emissions	IEC/EN 61326-1 :2020 (Industrial Electromagnetic Environment)	CISPR 11 AC port inc A1
Conducted emissions, AC port		
Conducted emissions, telecom port		
Radiated RF immunity		IEC/EN 61000-4-3
Fast transient bursts		IEC/EN 61000-4-4
Surge		IEC/EN 61000-4-5
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

Note: For detailed electrical specifications on measurement voltage and power supply input voltage, refer to the HDPM6000 Technical Datasheet.

Dimensions

Top view

Side view



Commercial References

Model	Description
HDPM6000 I/O Module	
METSEHDPM6IO	HDPM I/O Module
HDPM6000 Head Unit	
METSEHDPM6S480VC	HDPM 50 / 60 Hz up to 480 v
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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As standards, specifications and designs develop from time to time, please contact Schneider Electric for confirmation of the information given in this document.

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Photos: Schneider Electric

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