

Data sheet

MPH2™ Managed Rack PDU



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General

The MPH2™ is a power distribution unit for IT racks which allows you to measure electrical values. Depending on the model, individual outputs can also be remote-controlled. Various IT devices and other sensitive electronic loads can be connected to the MPH2™.

System Description

The MPH2™ belongs to the “Managed Rack PDU” group which is part of Emerson Network Power’s range of rack PDUs. It is designed to remote-monitor and control the IT devices in the server rack. The MPH2™ can easily be integrated into a rack and management architecture and offers high availability and optimized energy and capacity management. The housing consists of a compact aluminum profile and can be integrated into Knürr racks from Emerson Network Power or other housing systems in a space-saving manner.

Depending on the model, phases, groups or individual outputs can be measured. The individual outputs can also be remote-controlled. Adjustable threshold values with an alarm function increase the availability of the connected loads. The integrated RPC2k communications card allows you to connect together up to 4 MPH2™ / MPX™ units and to remote-monitor and maintain all connected units. This card can be replaced during operation. The MPH2™ unit has an integrated display. In addition, the optional external RPCBDM-1000 display module can be connected and flexibly attached to the rack. Up to 10 sensors (temperature, air humidity, door contacts as well as potential-free input contacts) can be connected to the communications card. In the case of models with an input current > 20 A, individual groups are protected

with a 20 A circuit breaker (hydraulic, magnetic). Cables with locking mechanisms can be connected to the outputs.

Depending on the model, the connecting cable for the MPH2™ is fixed attached to the housing (cable length 3 m) or an external connecting cable can be connected directly. The PDU can be integrated into ENP Knürr racks or other housing systems with corresponding slots without the use of tools.

- Remote management: Onboard web interface, CLI, SNMPv1,2,3, SSH, Telnet, integratable into Avocent ACS, UMG & MPU, DSView, Rack Power Manager, Nform & Trellis as well as Nagios or other management software programs.
- Authentication: Local, remote: Active directory, LDAP, TACACS, Radius, Kerberos.
- Encryption: MD5, AES, DES.
- Measurement parameters: Current (A), voltage (V), real power (W), apparent power (VA), consumption (kWh), power factor, frequency and crest factor (only Typ M and R).
- Accuracy: +-1% (V, A).
- Power loss: 3W - 5W.
- Material / surface / color: Closed housing, aluminum profile, finely textured powder-coated top (RAL 7021), Vampamid 6 0024 V0 (UL94) recyclable plastic parts, finely textured and colored (RAL 9005).

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MPH2™ models

MPH2™ B – input measurement	The MPH2™ B series measures the electrical parameters per phase as well as per group (only models with an input current > 16 A).
MPH2™ C – input measurement, output switching	The MPH2™ C series measures the electrical parameters per phase as well as per group (only models with an input current > 16 A). The outputs can also be individually remote-switched.
MPH2™ M – input measurement, output measurement	The MPH2™ M series measures the electrical parameters per phase, per group (only models with an input current > 16 A) and per outlet.
MPH2™ R – input measurement, output measurement, output switching	The MPH2™ R series measures the electrical parameters per phase, per group (only models with an input current > 16 A) and per output. The outputs can also be individually remote-switched.

Environmental conditions

Ambient temperature	During operation: 5°C – 60°C Storage temperature: -20°C – 85°C
Relative humidity	10 – 90% non-condensing
Operating altitude	Max. 2000 m.

Standards

The MPH2™ is designed in accordance with the relevant sections of the following documents. If the information in the documents and this specification does not correspond, the information in this specification shall apply.

Europe	CB certification: IEC 60950-1:2005 (2nd ed.) + A1:2009 BG certification: EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + AC2011 EMC: EN 55022:2010 + AC:2011 EN 55024:2010 EN 61000-4-2 EN 61000-4-11 CE-compliance: Directive 2004/108/EC Electromagnetic Compatibility (EMC) Directive 2006/95/EC Low voltage (LVD) Directive 2011/65/EU Restriction of the use of certain hazardous substances (RoHS)
North America	UL certification: UL 60950-1, Second Edition, rev. December 19, 2011 CAN/CSA C22.2 No. 60950-1-2007 (R2012) EMC: FCC: CFR47

Physical dimensions

Width x Depth	56 mm x 50 mm
Length	916 mm / 1004 mm / 1737 mm/ 1827 mm

Items supplied

- MPH2™ rack PDU
- Standard fixing bracket
- Safety notes
- Quickstart guide

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