Product brochure

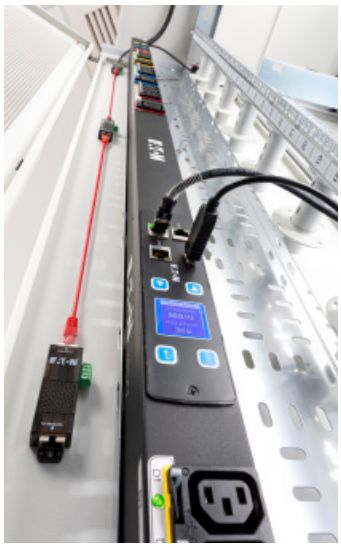


Eaton Environmental Monitoring Probe Gen 2

The Eaton Environmental Monitoring Probe (EMP) Gen 2 (EMPDT1H1C2) is a second-generation environmental monitoring probe for the Eaton Gigabit Network Card and Eaton rack PDUs, including G3 (firmware 4.x or later), G3HD, G3+ and G4. The new EMP maintains all the functionality of the previous generation of sensors (temperature, humidity and dry-contact monitoring), while adding the ability to be daisy-chained (up to three per host), allowing multiple sensors to connect to a single host. For optimum air intake measurement within an enclosure, the EMP Gen 2 provides tie-wrap mounting options for front- and rear-door perforation to specifically measure airflow at the intake point. This enhances the richness of rack-level environmental data for the top, middle and bottom of the rack.



Eaton EMP Gen 2 installed on UPS



Eaton EMP Gen 2 daisy-chained on rack PDU

Technical specifications[1]

Eaton Environmental Monitoring Probe Gen 2

Type	Environmental monitoring device
Compatible with	Network-M2, Network-M3 and Eaton rack PDUs including G3 (firmware 4.x or later), G3HD, G3+ and G4
Mounting options	The EMP Gen 2 includes bottom- and side-mounting capabilities for both UPS and PDU installation – see diagram below
Sensor capability	Temperature, humidity and two dry-contact sensors for expansion
Measurement accuracy	Measure temperatures from 0°C to 70°C (32°F to 158°F) with an accuracy of ±2°C and relative humidity from 10% to 90% with an accuracy of ±5%
Catalog number	EMPDT1H1C2
Dimensions (H x W x D)	2.26 x 1.48 x 1.15 in. (57.6 x 37.6 x 29.3 mm)
Weight	1.19 oz. (34 g)

1. Due to continuing improvements, specifications are subject to change without notice.

Mounting options

1. Nylon fastener location
2. Tie wrap holes
3. Magnets
4. Keyholes



Powering Business Worldwide

Install, activate and accessorize

Stay informed and reduce risk in your application by receiving environmental notifications and setting up automated actions through the Eaton Intelligence Platform for power management software.

Each Eaton EMP Gen 2 sensor can support up to two additional input contact sensor devices per module, for a total of six additional sensors per rack. Additional sensors are sold separately.

Product snapshot

- **Measure** ambient temperature and humidity at the rack level
- **Monitor** the status of up to six additional contact devices/sensors
- **Display** real-time and historical status of all sensors via the intranet or Internet
- **Stay informed** of alarms via email notification
- **Act** before problems affect sensitive equipment
- **Aggregate real-time information** via EMP Gen 2 sensor

Install and activate quickly

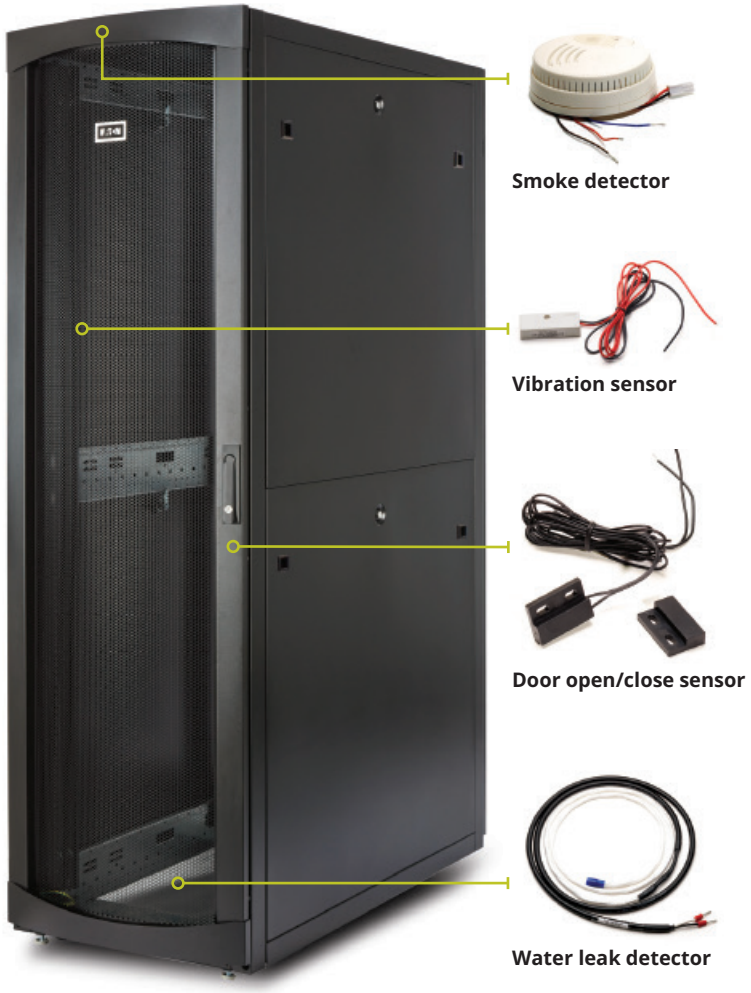
The Eaton EMP Gen 2 sensor easily mounts within an enclosure via the four available mounting options. Nylon fasteners, tie wraps, magnets and keyhole/screw mounting options provide the versatility required to mount the sensor within any application. Once mounted, simply connect directly to your rack PDU or UPS network card and set up your notification parameters.

Streamline administration via sensor consolidation

The EMP Gen 2 sensor can function as a hub that allows users to directly connect the door contact sensor, water leak detection sensor, vibration sensor and smoke detector via the available dry-contact sensors on the probe. The EMP Gen 2 sensor provides 24/7 updates about environmental and security concerns at the rack level.

Eaton EMP Gen 2 sensor accessories	Part number
Water leak detector, 3 ft.	103005780
Water leak detector, 12 ft.	103005894
Door contact sensor	103005781
Vibration sensor	103005782
Smoke detector/alarm (110 Vac, NEMA 5–15)*	103005890
Smoke detector/alarm (220 Vac, IEC C13)*	103005779
Power supply, 120 Vac (US)	10300578
Power supply, C13/C14 adapter cable (100–250 Vac, 50/60 Hz)	103005895

* Power supplies required in addition to smoke detector/alarm option part number



For more information, please visit:
Eaton.com/EMPGen2

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