

Temperature & Humidity Sensor

EA1640

EA1640 serves as a compact, flexible humidity and temperature measuring solution for ATEN PG series PDU applications where precision is significant - from server rooms, data centers, hospitals, smart factories to green offices. The sensor contains 1 x RJ-45 input port, 1 x RJ-45 output port, and 1x RJ-11 input port for easy connection with PG PDU series and environmental sensors including EA1140, EA1240, and EA1340. One terminal block is built for combining EA1440 / EA1441 / EA1442 door sensor or EA1540 the capacitive leakage sensor. Up to 8 daisy-chained devices are supported to broaden applications.

Designed with the ultimate flexibility in mind, EA1640 can be placed at an ideal location as a result of the 1.5 m RJ-45 cable coming with it. In addition, it comes with a magnet for easy attachment to metallic surfaces. Rack mount kits are also included for quick installation inside racks.

Features

- A humidity and temperature measuring solution for ATEN PG PDU series
- Precise relative humidity accuracy: $\pm 7.5\%$ RH, 30 – 70 % RH; $\pm 15\%$ RH, 15 – 40 % RH, 70 – 90 % RH
- Highly accurate temperature measuring: $\pm 1\text{ }^\circ\text{C}$ (Max.), 10 – 40 $^\circ\text{C}$; $\pm 1.5\text{ }^\circ\text{C}$ (Max.), –10 – 10 $^\circ\text{C}$, 40 – 75 $^\circ\text{C}$
- Supports up to 8 daisy-chained devices
- Multiple interfaces to broaden applications –
 - 1 x RJ-45 input port, 1 x RJ-45 output port, and 1x RJ-11 input port support connection with PG PDU series and EA1140 / EA1240 / EA1340 environmental sensors
 - 1 x terminal block supports EA1440 / EA1441 / EA1442 door sensor and EA1540 capacitive leakage sensor
- Meets flexible installation purposes –
 - Included 1.5 m RJ-45 cable for ideal location placement
 - Contains a magnet for sticking to metallic surfaces
 - Included rack mount kits enable quick installation inside racks
- Overload protection prevents overheating of the protected equipment
- LED indicator is visible through the enclosure
- Prevents device malfunctions thanks to early detection in case of overheating / excessive humidity
- Suitable for applications that require precise measuring, such as server rooms, data centers, hospitals, smart factories, and green offices

Front View



Rear View



Specifications

EA1640	
Electrical	
Environment Sensor Ports	1 Port Terminal Block for Door Sensor (EA1440 / EA1441 / EA1442) / Capacitive Leakage Sensor (EA1540) 1 Port RJ-11 for Original Temperature Sensor (EA1140 / EA1240 / EA1340)
Measurement	
Range	Temperature: -10 – 75 $^\circ\text{C}$ Humidity: 0 – 100 %
Accuracy	Temperature: $\pm 1\text{ }^\circ\text{C}$ (Max.), 10 – 40 $^\circ\text{C}$ $\pm 1.5\text{ }^\circ\text{C}$ (Max.), –10 – 10 $^\circ\text{C}$, 40 – 75 $^\circ\text{C}$ Humidity: $\pm 7.5\%$ RH, 30 – 70 % RH $\pm 15\%$ RH, 15 – 40 % RH, 70 – 90 % RH
Power Consumption	DC12V:0.273W
Environmental	
Humidity (Operating & Storage)	0 – 80 % RH, Non-Condensing
Temperature (Operating / Storage)	-10 – 75 $^\circ\text{C}$ / -20 – 70 $^\circ\text{C}$
Physical Properties	
Dimensions (L x W x H)	10.44 x 3.57 x 2.14 cm
Weight	0.05 kg
Cable Length	1.5 m (RJ45+RJ45) round cable
Housing	Black Polycarbonate
Compliance	
EMC Verification	EMC/FCC, Class A
Safety Verification	By Request
LEDs	
LED Indicator	[Solid]: EA1640 is in working mode [Fast Blinking (for 2 minutes)]: EA1640 receives the command "FindMe". [Slow Blinking (for 10 seconds)]: Over-current protection (OCP) is triggered, and the sensor(s) connected to EA1640 is going to power off. [Slow Blinking]: Firmware upgrade of EA1640 is in progress.

ATEN International Co., Ltd.

3F., No.125, Sec. 2, Datung Rd., Sijhih District., New Taipei City 221, Taiwan
Phone: 886-2-8692-6789 Fax: 886-2-8692-6767
www.aten.com E-mail: marketing@aten.com

Product information is subject to change without prior notice.

Released: 03/2024 V1.0

© Copyright 2024 ATEN® International Co. Ltd.
ATEN and the ATEN logo are registered trademarks of ATEN International Co., Ltd.
All rights reserved. All other trademarks are the property of their respective owners.

