

EA1640 Humidity and Temperature Sensor

Installation Guide



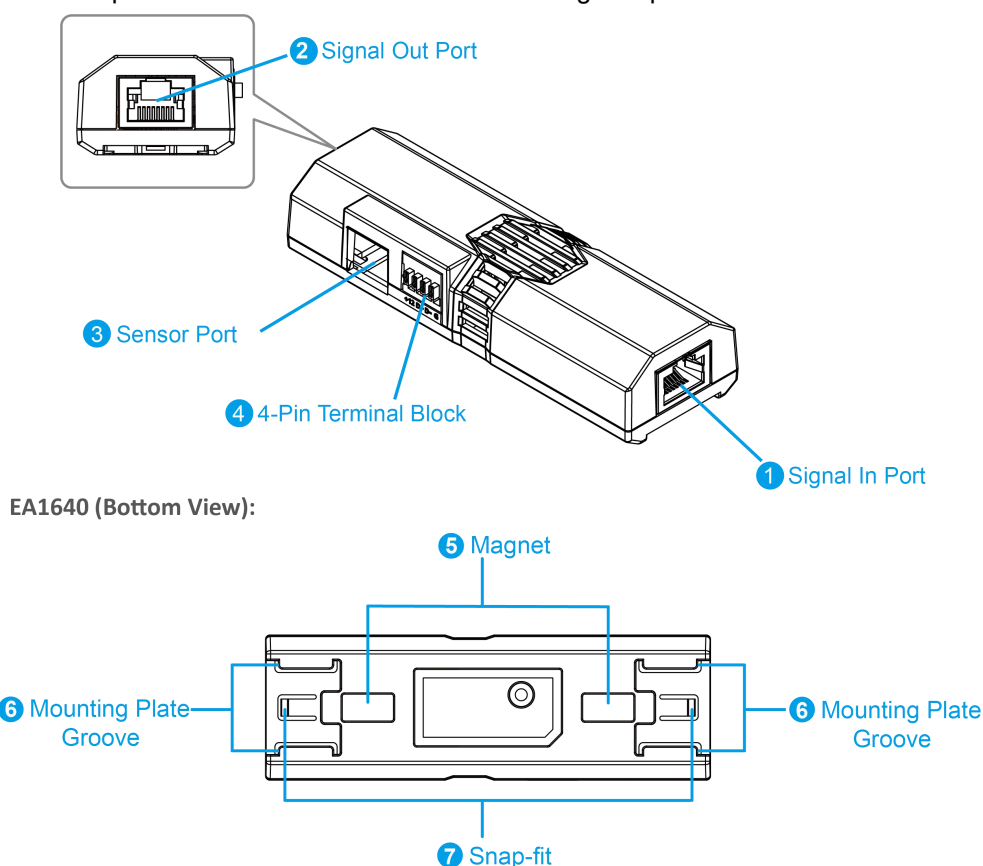
MISC10000043 09/2024 V1.2

Package Contents

Qty	Description
1	EA1640 Humidity and Temperature Sensor
1	RJ-45 cable (1.5m)
2	rack mount kits
1	user instructions

Hardware Overview

EA1640 Humidity and Temperature Sensor consists of the following components as illustrated below:



1. Signal In Port

Use an RJ-45 cable to connect to the sensor port of PG series PDU or the signal out port of the last EA1640.

2. Signal Out Port

Use an RJ-45 cable to connect to the signal in port of the next EA1640.

3. Sensor Port

Use an RJ-11 cable to connect to ATEN Temperature Sensor (EA1140 / EA1240 / EA1340).

4. 4-Pin Terminal Block

Use the sensor terminal to wire to ATEN Door Sensor (EA1440 / EA1441 / EA1442) or ATEN Capacitive Leakage Sensor (EA1540).

5. Magnets

6. Mounting Plate Grooves

7. Snap-fit

Installation

At the bottom side of the EA1640 Humidity and Temperature Sensor, there are 2 magnets for easy attachment to metallic surfaces, and the mounting plate grooves for attaching the rack mount kits.

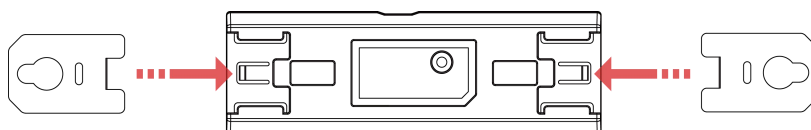
● Magnetic Mount

To mount the EA1640 Humidity and Temperature Sensor with its built-in magnets:

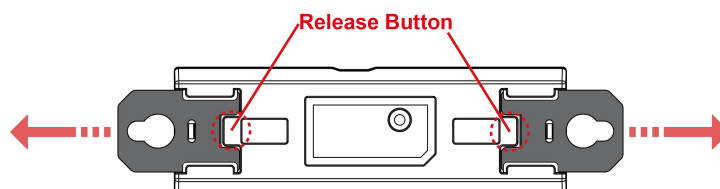
1. Make sure that the surface to be attached to is metallic and flat.
2. Directly attach the EA1640 to the surface.

● Attaching / Detaching the Rack Mount Kits

To install the rack mount kits to the EA1640 Humidity and Temperature Sensor, please slide the rack mount kits into the mounting plate grooves as illustrated below. A “click” sound is made once the rack mount kit is firmly attached to the EA1640.

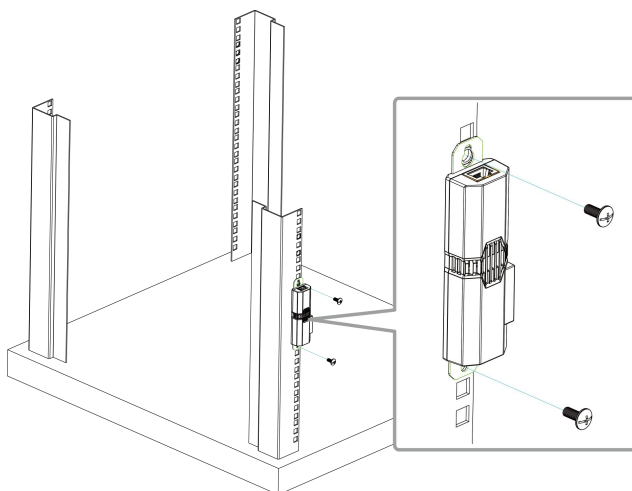


To remove the rack mount kits from the EA1640, press and hold the release buttons and pull the rack mount kits out.



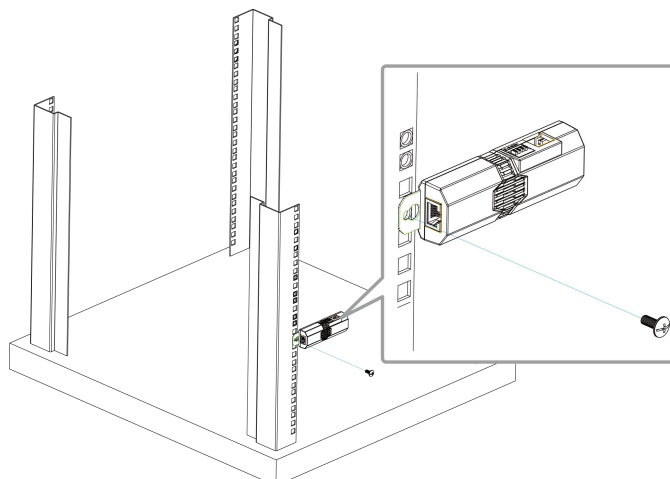
● Vertical Installation

To mount the EA1640 Humidity and Temperature Sensor to the system rack vertically, align the rack mount kits screw holes with that of the rack, and use the self-supplied screws to secure the EA1640 onto the rack.



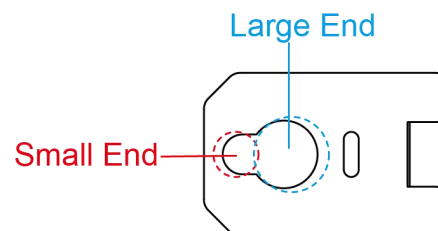
● Horizontal Installation

To install the EA1640 onto the system rack horizontally, you only need to attach one rack mount kit to the EA1640. Mount the EA1640 to the system rack, and secure it onto the rack with self-supplied screw.



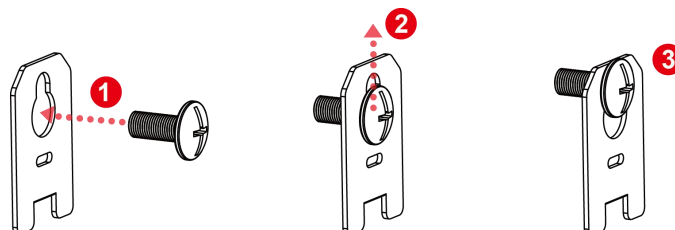
● Keyhole (Mounting Hole) of Rack Mount Kits

To firmly secure the rack mount kit with your self-supplied screw, please thread the screw through the small end of the keyhole (mounting hole) and then fasten the screw.



If the self-supplied screw is M6 screw, do the followings:

1. Insert the self-supplied M6 screw into the large end of the hole.
2. Move the screw toward to the small end of the hole.
3. Fasten the screw.



LED

The EA1640 Humidity and Temperature Sensor is equipped with the LED illumination which is visible through the transparent enclosure. The LED illumination delivers the following status:

LED	Description
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.

Cascading EA1640 Sensors

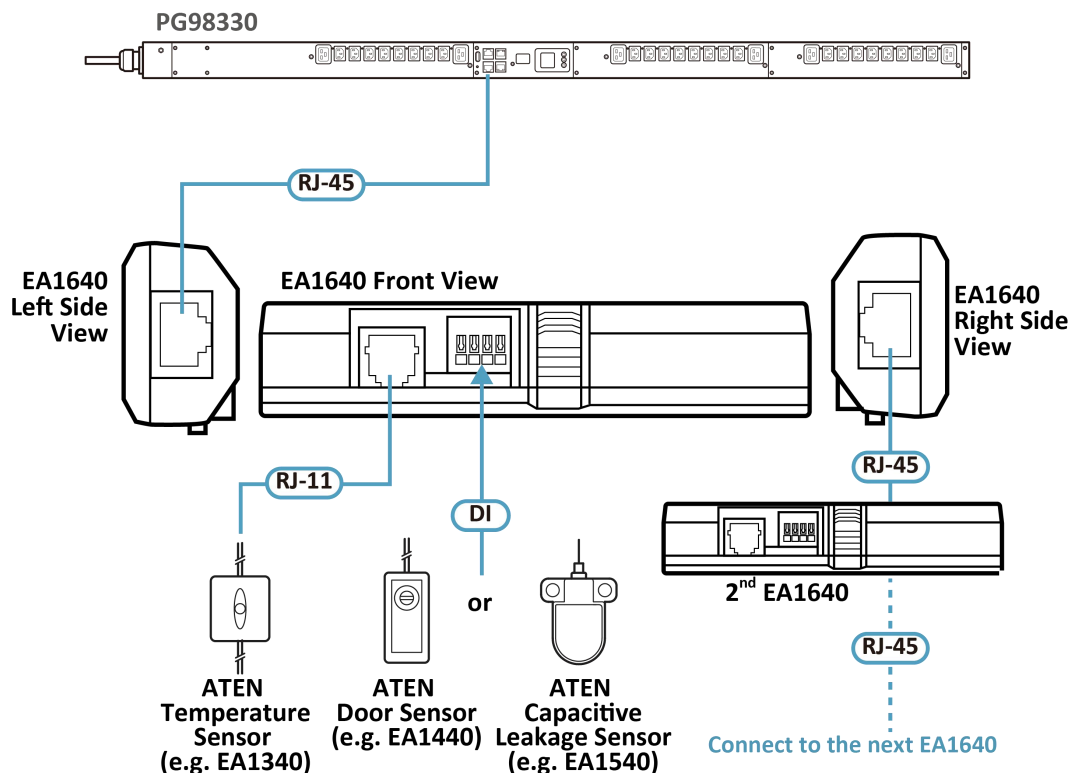
You can cascade up to 8 EA1640 units when each EA1640 unit is not connected with sensors of other models. If you do install sensors of a different model, note the maximum number of cascade connections, as specified below.

Number of Sensors to be Connected to Each EA1640 via		Maximum Number of EA1640 Sensors
RJ-11 Sensor Port	4-Pin Terminal Block	
0	0	8
0	1	3
1	0	7
1	1	3

Note:

1. The maximum transmission distance for 8 EA1640 units connected in series is 40 meters.
2. We use the highest power consumption models, EA1340 (for RJ-11 sensor port) and EA1440 (for 4-pin terminal block), as the connected sensor(s) to estimate the maximum number of EA1640 unit.

● Connecting One EA1640 Sensor



● Cascading EA1640 Sensors

