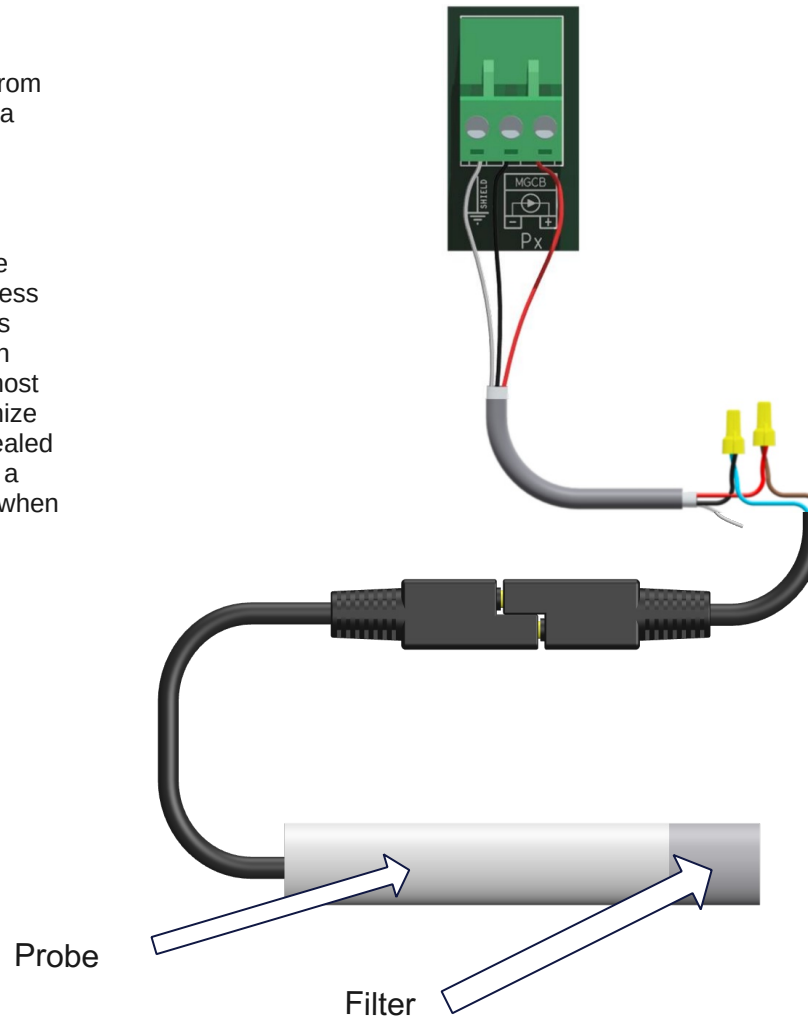


Product Description

The GE-HUM3 measures relative humidity from 0 to 100%. Relative humidity, expressed as a percentage, represents the amount of water vapor in the air compared to the maximum possible amount, which depends on room temperature. Thanks to its integrated temperature sensor, the GE-HUM3 therefore provides accurate humidity readings regardless of the ambient temperature. The GE-HUM3's sensor is specifically designed for production environments and optimized to deliver the most accurate measurements possible. To maximize its lifespan, all electronic components are sealed in epoxy resin. The GE-HUM3 also features a quick-connect fitting for easy disconnection when cleaning the building.



Specifications

Humidity

Measurement range: 0 to 100 %RH
Accuracy: typ. ± 2 %RH; max. ± 3 %RH; at 25 °C (77 °F), from 20 to 80 %RH
Stability: 0.5 %RH drift per year
Resolution: 1 %RH
Response time: 10 seconds

Temperature

Measurement range: -40 °C to +50 °C (-40 to +122 °F)
Accuracy: typ. ± 0.3 °C (± 0.5 °F); max. ± 0.4 °C (± 0.7 °F); from 5 °C to 60 °C (41 to 140 °F)
Resolution: 0.5 °C
Response time: 10 seconds

General Data

Maximum cable length: 250 m (820 ft)

Power

Voltage: 8 VAC
Current: 40 mA
Frequency: 50 to 60 Hz

Mechanical

Probe length: 17 cm (6.7 in)
Cable length: 5 m (16.4 ft)
Weight: 250 g (0.55 lb)
Protection: IP 54 (against dust / splashing water)



WARNING: When cleaning your building, never aim water jets at the GE-HUM3. If liquid water comes into contact with the GE-HUM3, it may be permanently damaged, malfunction or give incorrect humidity readings.

WARNING: Do not touch the probe, to avoid any risk of damage from static electricity.

GE-HUM3 product sheet v2.0

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Installation

The GE-HUM3 probe can be connected to the following controllers: MGCB controllers (Genius iTouch, GE-28, etc.). In addition to humidity measurement, the GE-HUM3 probe offers the following features:

- temperature measurement;
- recording of minimum and maximum temperature and humidity;
- probe status information.



The GE-HUM3 must be suspended from the ceiling, in the middle of the room, between 1.50 m and 2 m (5 to 6.5 ft) from the floor. This location should be representative of the room's overall humidity and temperature.

Make sure the GE-HUM3 probe is out of reach of animals!

Maximum cable length between the probe and the controller: MGCB: 250 m (820 ft), AWG #22.

Quick-connect cable: the GE-HUM3 connects to the controller via a quick-connect cable. If necessary, this cable can be extended; see above for the maximum permissible length. Do not run the cable near a high-voltage line. See below for recommended cables. When extending a cable, it is important to solder the connection.

Included Items

GE-HUM3 probe
Connecting cable



NEVER USE THE SHIELD AS A CONDUCTOR. CONNECT THE GROUND TO THE SHIELD AT ONE END ONLY.

Required Tools

Screwdriver. If the cable must be extended: wire stripper and soldering iron.

Installation Test

Connect the probe to the controller following the connection diagram shown on this page. Once connected, check that the controller displays a humidity reading. Readings are not accurate during the stabilization period (approximately 5 minutes). Test the probe by blowing on the filter: the displayed humidity should rise.

2-Wire MGCB Communication

Cable: 2-conductor shielded cable with drain wire

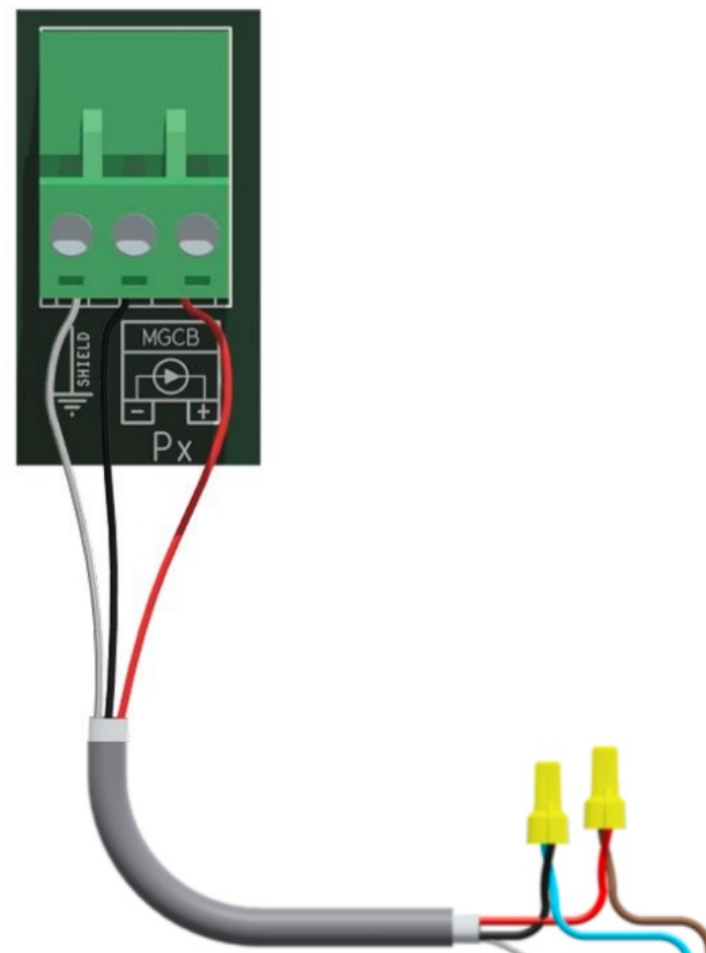
Gauge: AWG #22, low capacitance

Maximum length: 250 m (820 ft)

Examples: Belden 8761, Electro Cable 5152202TFT4, Encore Wire C2514A, Alpha Wire 1291C, Deca Cable 73-532

Replacing an old-model probe

To replace an old-model probe with a new-model probe, cut the red and black wires and use only the green and white wires.



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