

# FGD-0108

## Temperature and Humidity Sensor Quick Installation Guide

Informational Reference for Authorized Installers and Fitters

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### 1. Overview

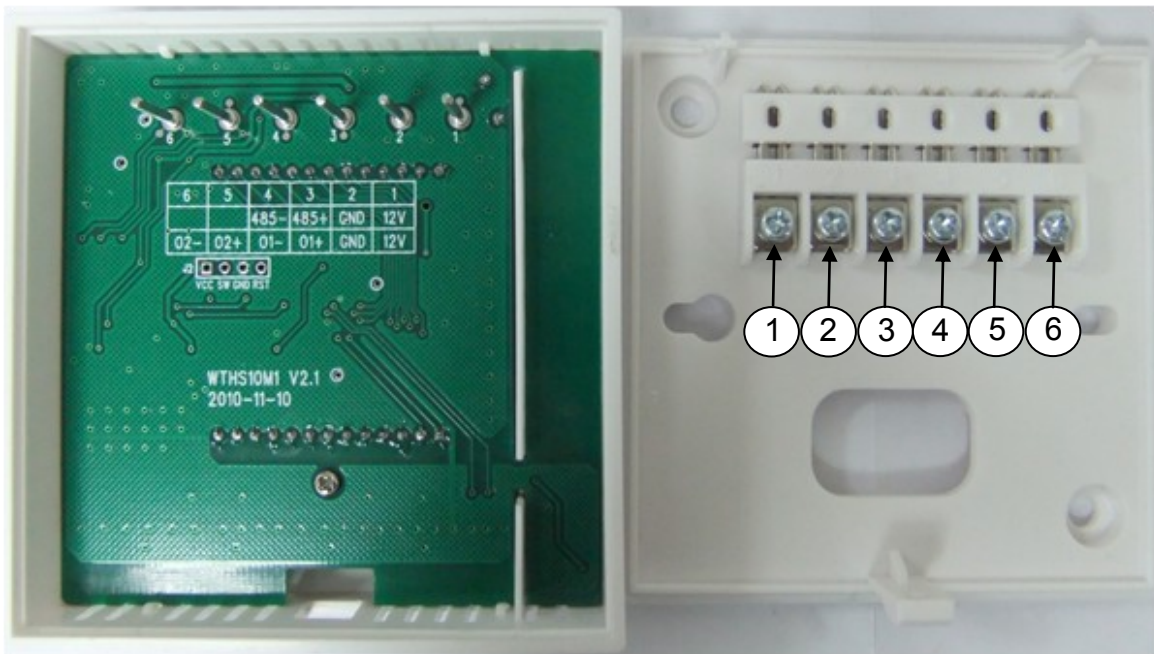
FGD-0108 temperature and humidity sensor is compact and user friendly. It measures and displays both ambient temperature and relative humidity at the same time.



#### Main Features:

1. 12V DC (5-15V DC) Main Power Input
  2. Temperature Sensing Range:  $-20^{\circ}\text{C} - 70^{\circ}\text{C}$  ( $-4^{\circ}\text{F} - 158^{\circ}\text{F}$ ) (Accuracy:  $\pm 0.5^{\circ}\text{C}$  at  $25^{\circ}\text{C}$ )
  3. Humidity Sensing Range: 0 – 100% RH (Accuracy:  $\pm 5\%$  RH at  $25^{\circ}\text{C}$ )
  4. Temperature Display Unit: Degree Celsius or Degree Fahrenheit
  5. Normally Open (NO) Solid State Output
  6. Dimension: 80 x 80 x 28mm
  7. Weight: 220g
  8. Material: ABS
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## 2. Wiring Connection



- 1: 12V DC+
- 2: GND
- 3: Temperature NO
- 4: Temperature COM
- 5: Humidity NO
- 6: Humidity COM

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### 3.1 Configure High / Low Temperature Limit

1. Press and hold **MENU** for 3 seconds
2. Use ▲ and ▼ to set high temperature limit ----- 

Set 35°C HI
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3. Press **ENTER** to save, press **MENU** to go to next page
4. Use ▲ and ▼ to set low temperature limit ----- 

Set 15°C Lo
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5. Press **ENTER** to save, press **MENU** to go to next page
6. Use ▲ and ▼ to set temperature hysteresis width ----- 

Set 0.5°C dL
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7. Press **ENTER** to save, press **MENU** for 5 times to exit

### 3.2 Configure High / Low Humidity Limit

1. Press and hold **MENU** for 3 seconds and then press **MENU** for 3 times
2. Use ▲ and ▼ to set high humidity limit ----- 

Set HI 80%
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3. Press **ENTER** to save, press **MENU** to go to next page
4. Use ▲ and ▼ to set low humidity limit ----- 

Set Lo 30%
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5. Press **ENTER** to save, press **MENU** to go to next page
6. Use ▲ and ▼ to set humidity hysteresis width ----- 

Set dL 5%
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7. Press **ENTER** to save, press **MENU** twice to exit

### 3.3 Reset to Factory Default

1. Press and hold **MENU** for 3 seconds and then press **MENU** for 6 times
2. Press **ENTER** to restore to factory default ----- 

dEFt
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3. Press **MENU** to exit

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### 3.4 Configure Temperature Display Unit °C / °F

1. Press and hold **▲** and **ENTER** for 3 seconds

2. Press **▼** for **Degree C** / **▲** for **Degree F** ----- 

Set °C
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 / 

Set °F
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3. Press **ENTER** to save, press **MENU** for 3 times to exit

### 3.5 Configure Humidity Display RH.

1. Press and hold **▲** and **ENTER** for 3 seconds and then press **MENU**

2. Press **▼** for **no RH display** / **▲** for **RH display** ----- 

Set
-----

 / 

Set RH
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3. Press **ENTER** to save, press **MENU** twice to exit

### 3.6 Temperature and Humidity Offset Value Setting

1. Press and hold **MENU** and **ENTER** for 3 seconds

2. Use **▲** and **▼** to input password: 11 and then press **ENTER** ----- 

PS 11
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3. Use **▲** and **▼** to input temperature offset value ----- 

ERR 0.0°C SET
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4. Press **ENTER** to save, press **MENU** to go to next page

5. Use **▲** and **▼** to input humidity offset value ----- 

ERR RH SET 0.0 %
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6. Press **ENTER** to save, press **MENU** to exit