



## eGate Thermo Transmitter Installation Guide

### Sensor Wiring Instructions

#### Tools

Wire Stripper

Side Cutters

Screwdriver (Philips)

Matches or Lighter



#### Parts

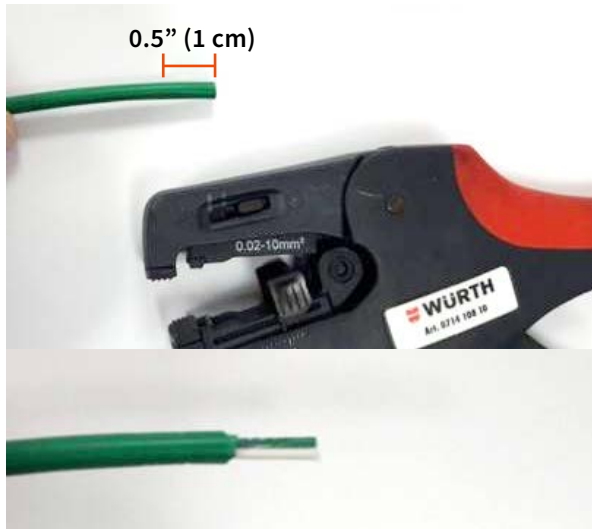
TcK-cable 30–90 ft  
(10–30 m)



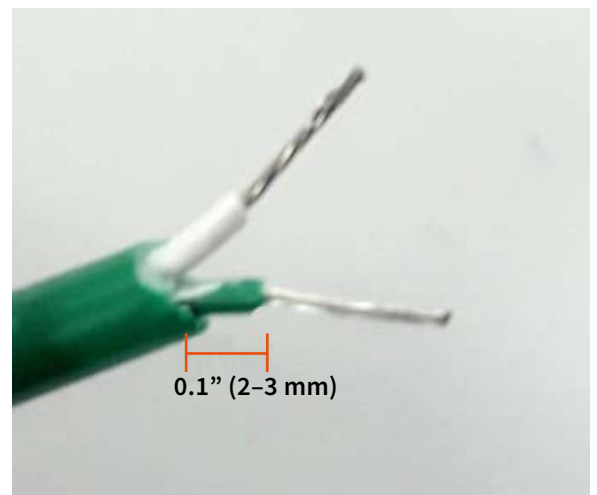
Heat shrink tube and the connector

### Connector connection

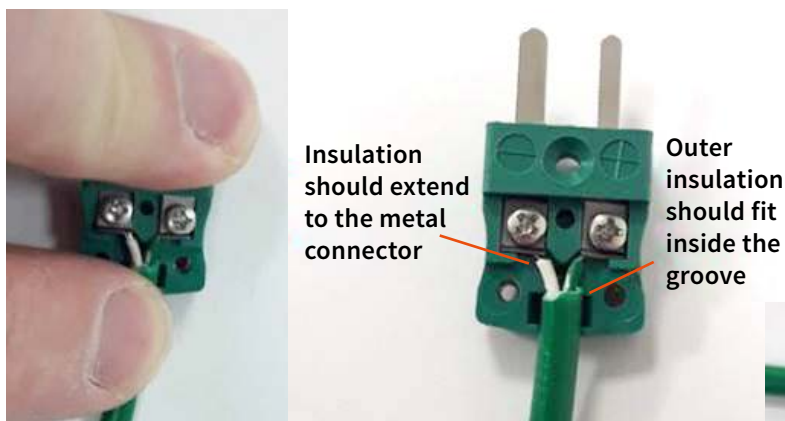
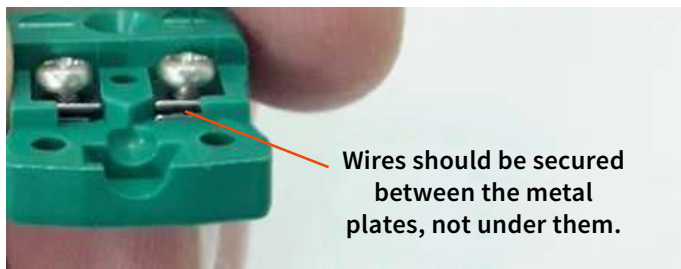
Peel 0.5" (1 cm) from the end of the cable



Peel the inner wires as shown below and twist the wire shreds together.



Open the connector screws half-way so that the wire can be inserted between the metal plates (not under them).



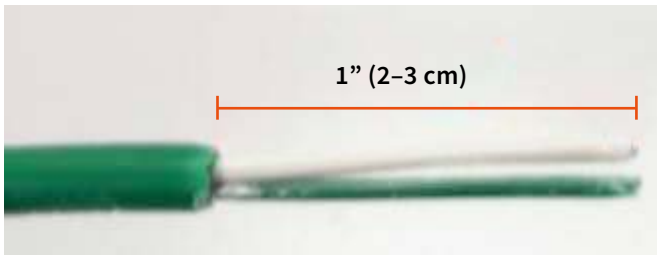
Connect the wires and tighten the screws as shown here. Use white wire for (-) and green wire for (+). Or if the colors are red/yellow, use red (-) and yellow (+).





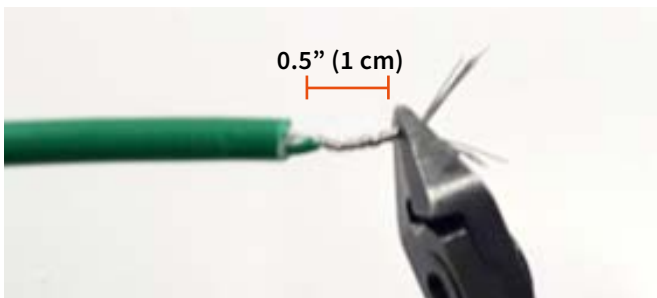
## Preparing the Sensor Cable

Peel the cable with 1" (2–3 cm)



Peel the wires all the way and bend them across each other.

Twist the wires tightly together and cut the end, leaving 0.5" (1 cm)



Insert the heat shrink tube and shrink it as shown.



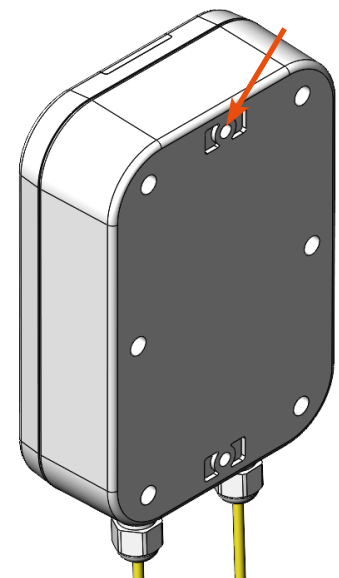
- Prepare the sensor cable at the office before entering the job site
- Use a longer (30–90 ft) cable length than what is needed, so that it's easy to prepare next time for the next job site
- Always have the sensor cable prepared by experienced person, following this guide, to secure its accurate performance





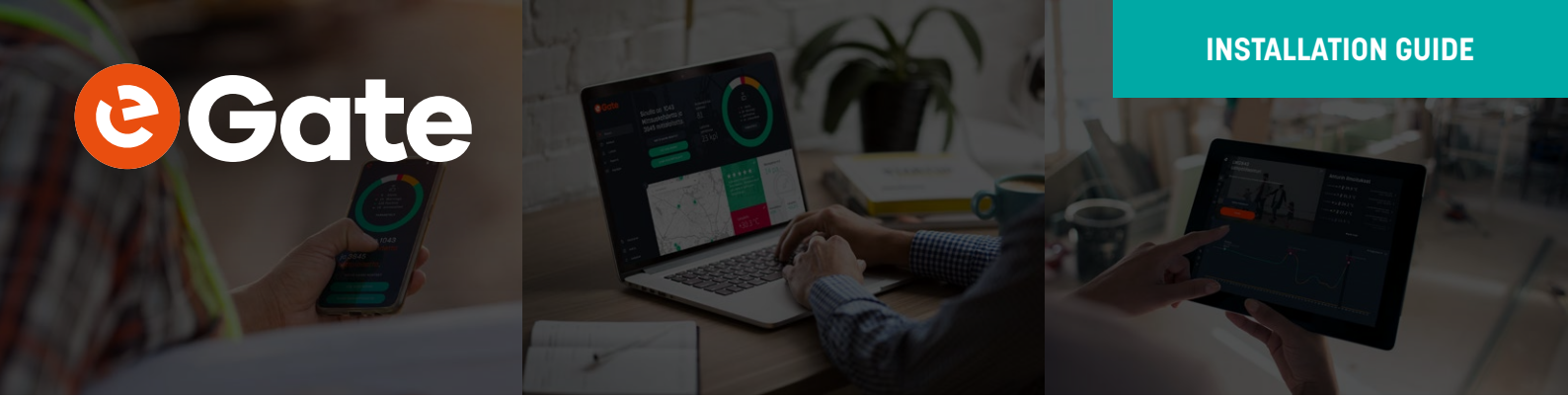
## Installing the Transmitter

- Check the wireless network coverage with your local Lorawan carrier.
- In most cases eGate Thermo device connectivity is very good using the public LoraWan network. In some cases, depending on the area or the installation location (for example if the work site is in basement), a separate wireless gateway will be required.
- eGate Thermo transmitter should be installed in upright position at least one meter (3 ft) above the ground/floor. When installing it indoors, for best performance there should be a line-of-sight to outside through windows or doors.
- Attach the transmitter using the attachment hole up in the middle.
- If needed you can carve the hole bigger, to make the screw or ziptie fit better.



## Using the Test Button

- Install the sensor cables and attach them to the transmitter
- Take the transmitter to the installation location and press the test button (it can be pushed once in every 60 seconds)
- **Connection**
  - GREEN light = connection established to network
  - RED flashing = no connection to the base station or know acknowledgment from the base station
  - NO light = connection test not finished, it may take 10sec
- **Sensor 1 ja Sensor 2**
  - GREEN light = sensor is detected
  - NO light = sensor not detected or cable/wire is cut or not connected
- **Battery**
  - GREEN light = battery charge is OK
  - RED flashing = 20 % battery charge left



## Troubleshooting

### Flashing red connection light:

- Go check if the measurement reading has arrived in the software app at the time stamp of the test-button push
- If the measurement reading has arrived at the software dashboard, connection has been established, but sensor is just not getting the acknowledgment from the base station -> no need for further action
- If the measurement reading does not appear on the software dashboard, install additional gateway at the job site

### No light with sensor 1 or 2:

- Double check the cable and wire connections
- If that did not help and if only one sensor light is not on, move that sensor cable to the other channel to see if the error follows
- If the error followed, the cable is either cut or the end of the wires have not been twisted properly

### Battery light flashing red

- Send the transmitter to be serviced for battery replacement
- In normal use the battery should last at least five (5) years
- TIP: when the sensor cable is disconnected, the transmitter goes to a sleep mode and transmits in every 3 hours. When the sensor is connected it transmits in every 15 minutes.