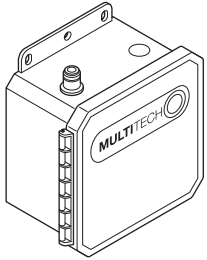


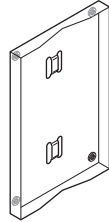


## Data Collector Installation Guide

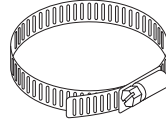
### Components



Data Collector  
Qty 1



Bracket  
Qty 1

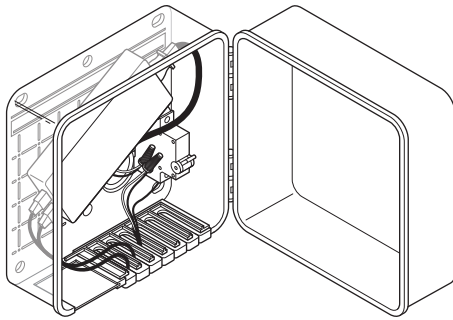


Hose Clamp  
Qty 2

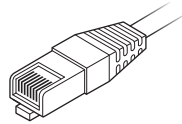


Antenna  
Qty 1

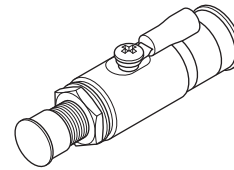
### Optional Components



Poe Kit or PoE+ Ethernet switch  
Qty 1



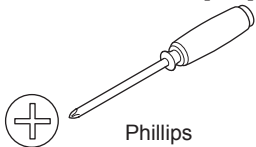
Cat5 or greater Ethernet Cable  
Qty 1



Lightning Arrestor\*  
Qty 1

\* Lightning Protector for high-risk areas: If the data collector is to be placed in a high place where lightning is considered common, a lightning arrestor can be installed on the pole above the collector to reduce risk.

### Tools and Equipment




Phillips  
Screwdriver



10 AWG  
Gauge Wire

### Warning and Caution

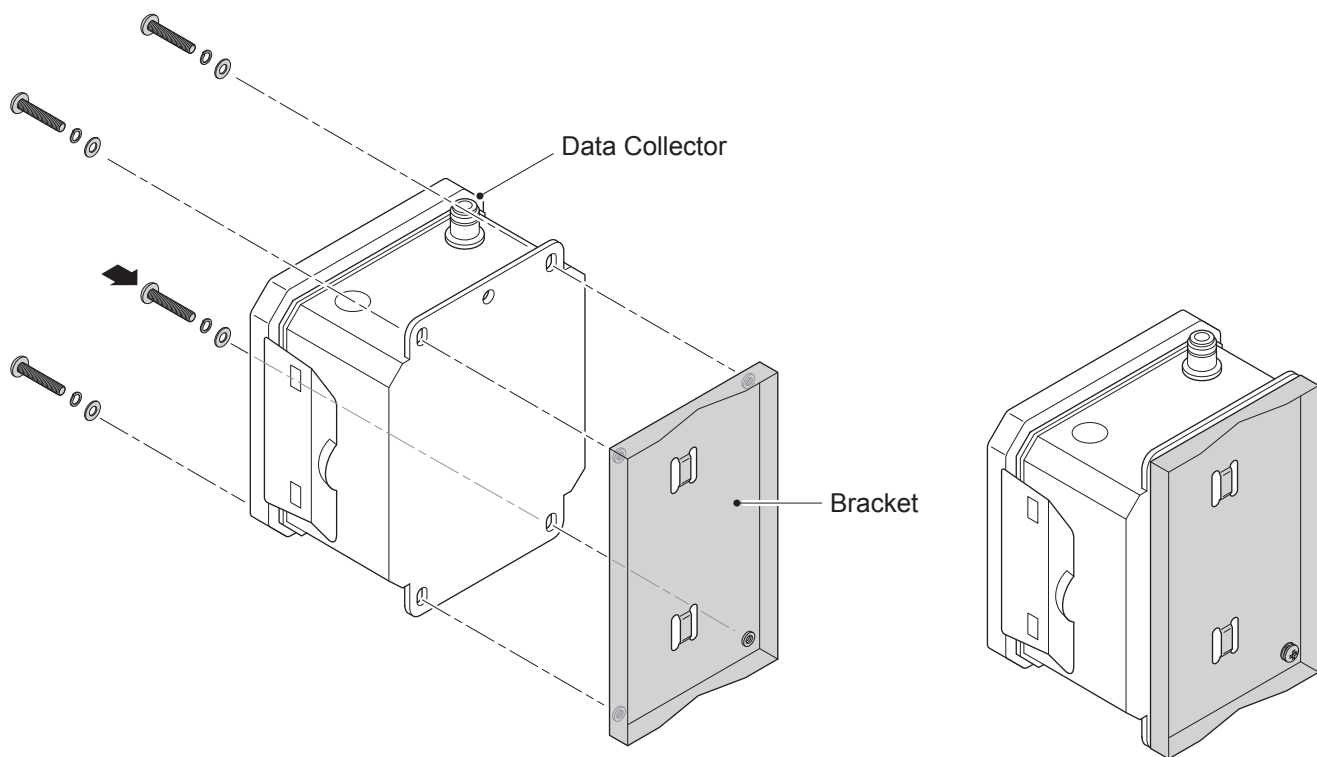
Warning and Caution symbols mean potential danger. You are in a situation that could cause bodily injury. Before working on any equipment, be aware of hazards in the installation area and be knowledgeable about electrical circuitry. Be familiar with standard practices for preventing accidents.

 **WARNING:** Only trained and qualified personnel should install, replace, or service this equipment. Installation must comply with local and national electrical codes.

Operating temperature is -30c to +75c.

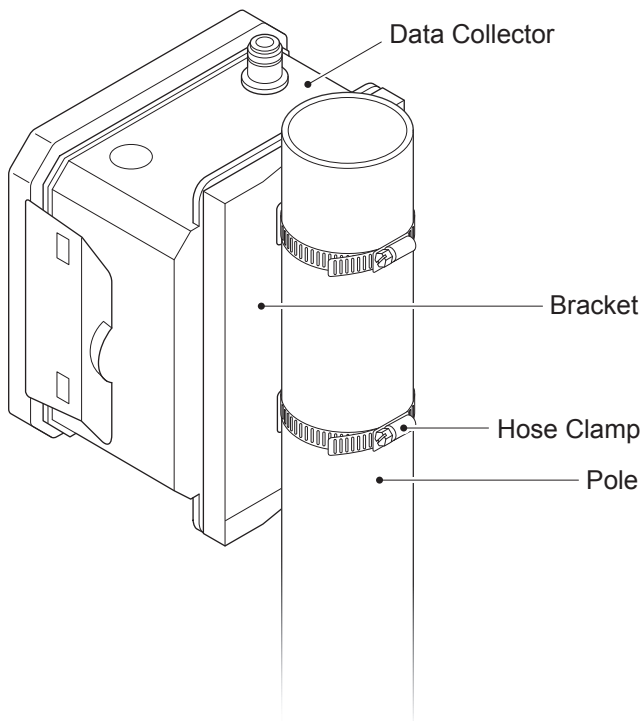
## 1. Mounting Bracket Installation:

Attach the bracket to the back of the Data Collector using the supplied screws and washers as shown.



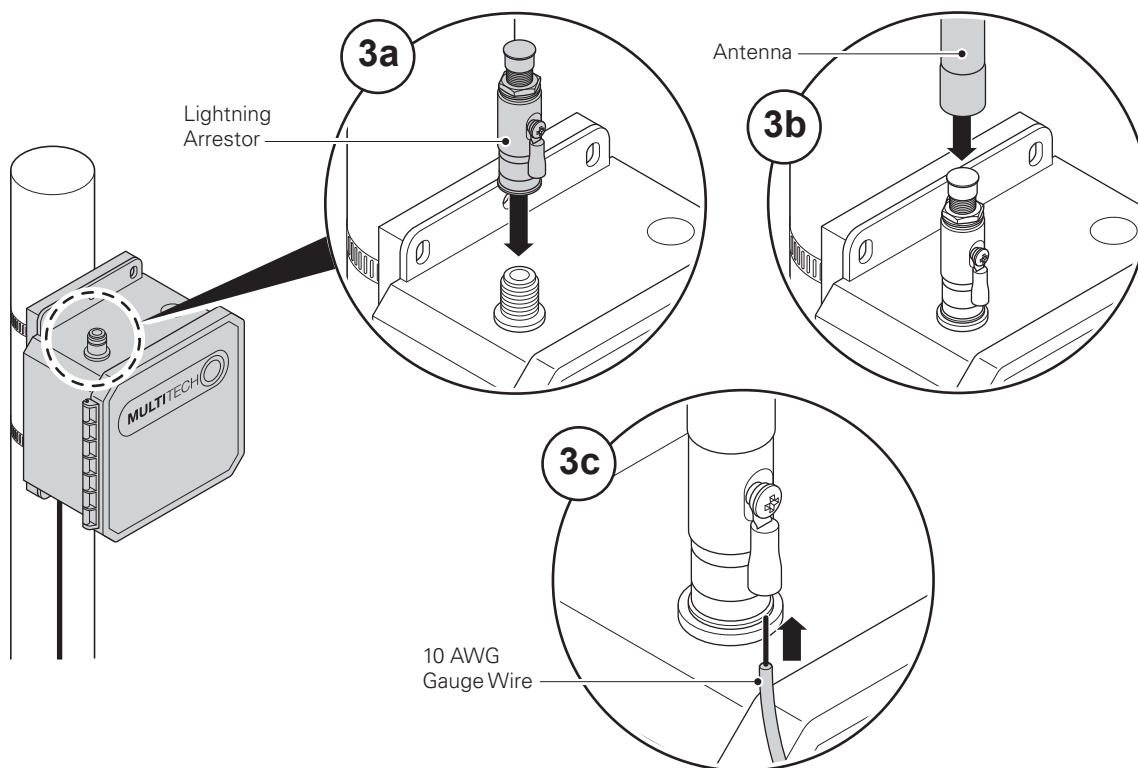
## 2. Mounting on a Pole:

Attach the Data Collector to the pole using the supplied Hose Clamps.



### 3. Lightning Arrestor installation (If Purchased / Supplied):

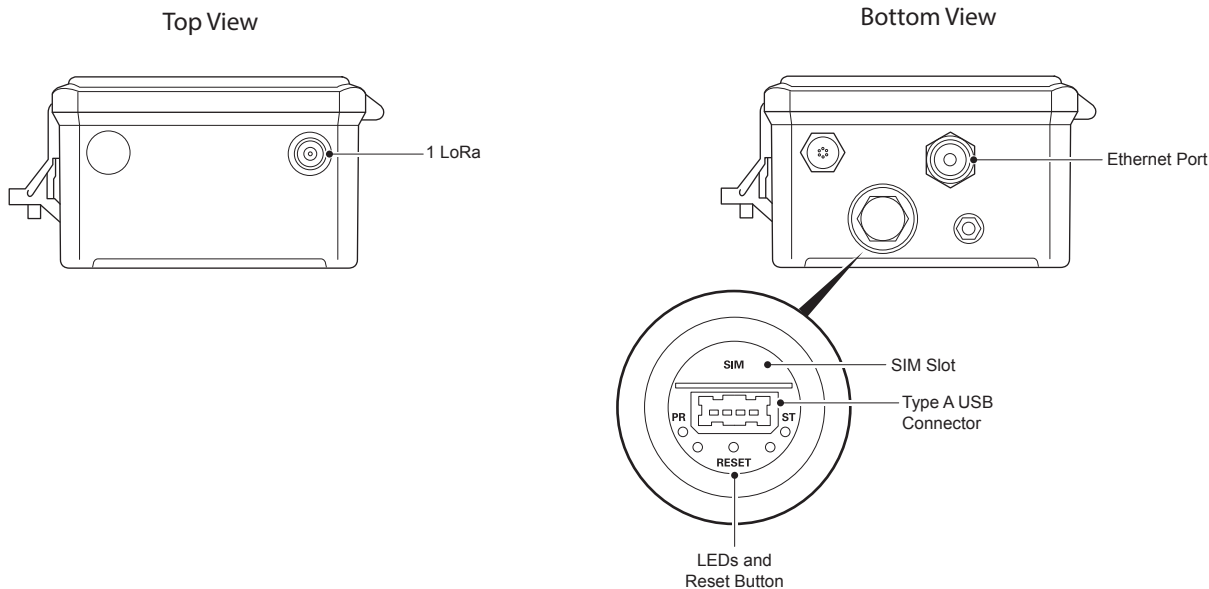
Screw Lightning Arrestor onto LoRa onto Connector 1 on top of Data Collector (3a). Attach antenna onto Lightning Arrestor (3b). Attach 10 AWG gauge wire to the arrester's red connector and then further down the pole such that if lightning struck it would carry the energy around the collector to ground(3c).



### 4. Attaching Antenna:

#### After mounting the Data Collector:

Attach the antennas to the LoRa (1) and GPS (2) connectors at the top of the Data Collector. If only one LoRa antenna, install on LoRa (1) connector. All antennas should be finger-tightened plus a quarter turn.

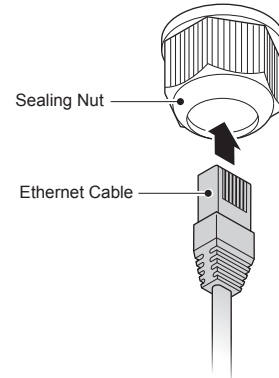
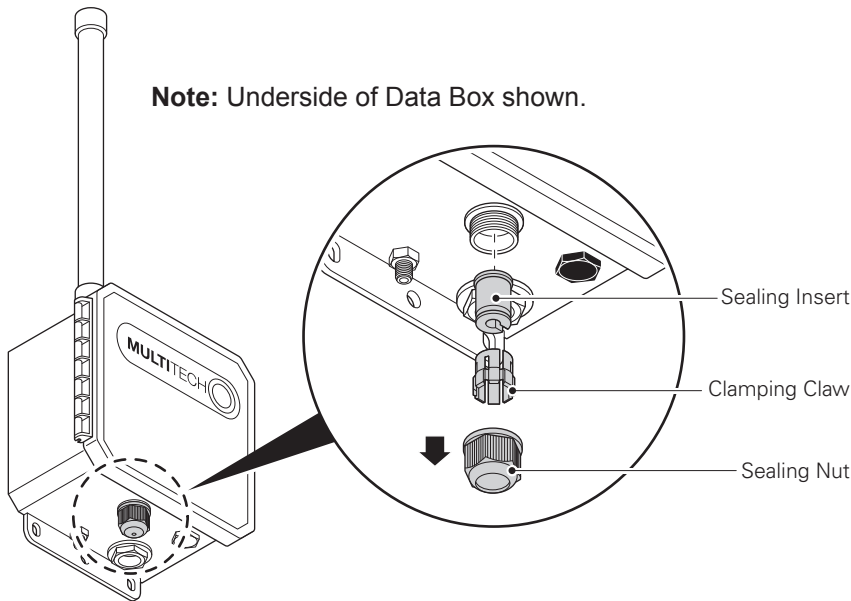


## 5. Connecting Ethernet

To connect your Ethernet cable and PoE injector:

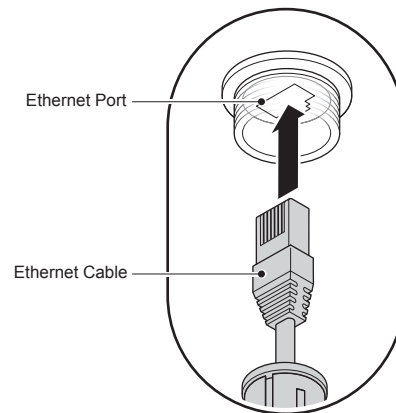
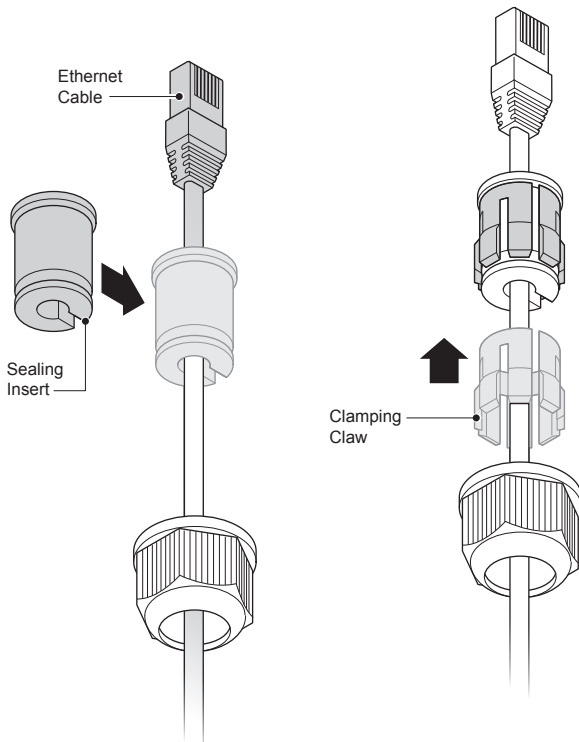
a) Remove the sealing nut, clamping claw, and sealing insert.

b) Thread the Ethernet cable (not provided) through the Sealing Nut



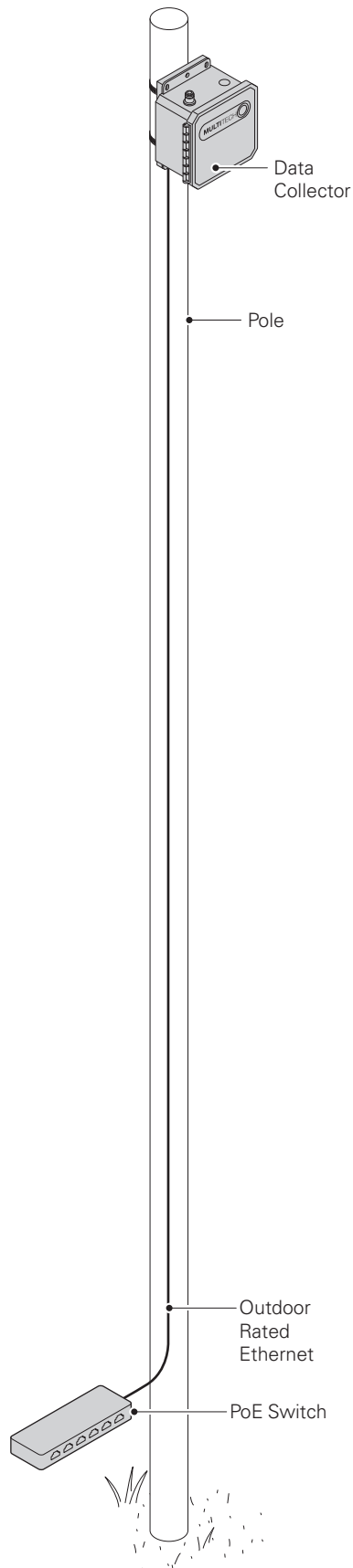
c) Wrap the Sealing Insert around the cable. Place Clamping Claw over the Sealing Insert.

d) Plug the Ethernet cable into the Ethernet port.



- e) Push the seal and clamping claw into the cable gland body.
- f) Push the sealing nut over the insert and clamping claw and tighten on the cable gland body to 10.5 lbf.in (12.0 kgf.cm).
- g) When the data collector is powered, a green light should be visible in the port adjacent to the ethernet port.

**Option 1:** After attaching to pole, the Data Collector can be plugged into any ethernet switch with PoE+ capability.



**Option 2:** Alternatively, the Data collector can be connected to the PoE injection kit, which is then plugged into a 120V outlet and a customer provided ethernet switch.

