# HTP installation guide

The High Temperature Probe (HTP) is designed for monitoring temperatures from 86 to 302°F (30 to 150°C). The High Temperature Probe is useful for monitoring temperatures in very warm areas, such as generator operating temperatures. If you need to monitor 'normal' temperatures, use one of Phason's standard temperature probes. Standard temperature probes are for monitoring temperatures from -49 to 122°F (-45 to 50°C).

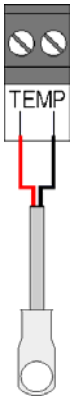
The High Temperature Probe comes with a six-foot cable. If you need a longer cable, follow the instructions on the next page to extend the cable.

The High Temperature Probe is designed to work with the Local Environment Monitor only. Using the probe with other controls will cause the controls to operate inaccurately.

Follow the guidelines below when installing temperature probes.

- Do not run the probe cable in the same conduit as AC power cables
- Do not run the sensor cable beside AC power cables or near electrical equipment.
- When crossing other cables or power lines, cross them at a 90 degree angle.

## Installing the probe

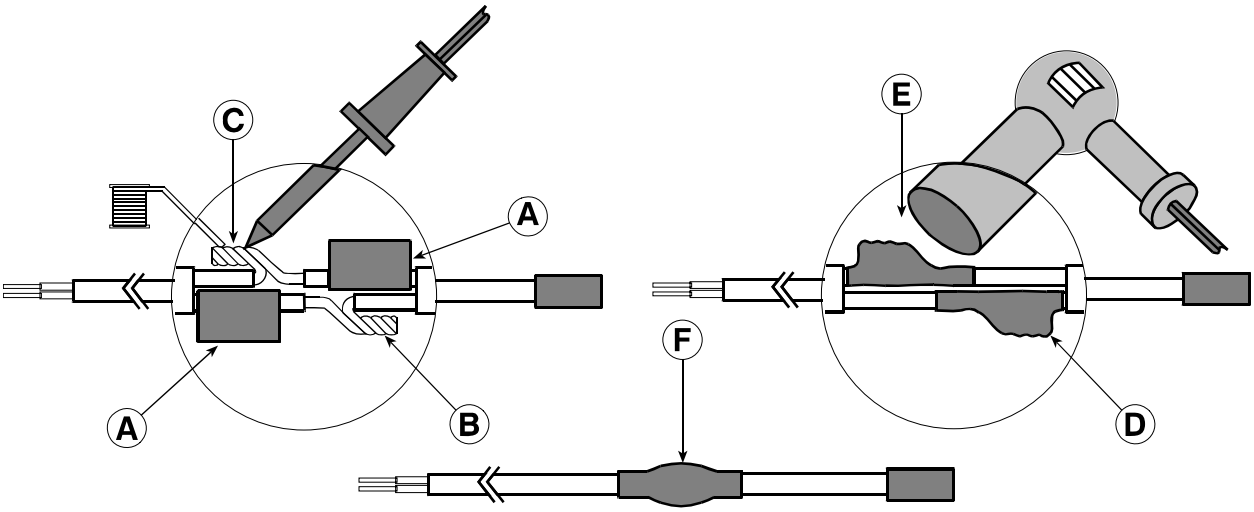



1. Mount the temperature probe in the desired location.
2. Switch off the power to the Local Environment Monitor.
3. Remove the cover from the unit.
4. Drill a 1/2-inch hole in the center of one of the electrical knockouts.
5. Insert the probe cable and strain relief through the hole.
6. Fasten the strain relief to the enclosure using the strain relief nut.
7. Connect the probe wires to the TEMP terminal as shown to the right.
8. Switch on the power to the unit and verify it operates properly. If it does not operate properly, check the wiring and communications. If the unit still will not operate properly, call your dealer.
9. Fasten the cover to the enclosure.

## Extending the probe cable

You can extend temperature probe cables to lengths of up to 500 feet. Follow the guidelines below when extending cables.

- Use two-wire 18 AWG jacketed cable. Phason recommends Belden # 9408, Alpha # 5052, or an equivalent. Extension cable is also available from Phason. For more information, contact your dealer or Phason.
- Join the extension cable to the temperature probe cable as shown below.
- If the unit operates erratically with the extended probe, run the cable along a different path or shorten it.




**A** Slide three pieces of heat shrink tubing over the wires: one for the red wire, one for the black wire, and one for both.

**B** Strip the ends of the wires and then twist them together.

**C** Solder the wires together using rosin-core flux solder—DO NOT use acid core solder.

**D** Slide the heat shrink tubing over the solder joints.

**E** Shrink the tubing using a heat gun.

**F** Your connection should look like this.

Phason Inc.
2 Terracon Place
Winnipeg, Manitoba, Canada
R2J 4G7
Phone: 204-233-1400
Fax: 204-233-3252
E-mail: support@phason.ca
Web site: www.phason.ca