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Phason AEC-2 Temperature Sensor Installation Guide

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Installation Guide**

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Phason temperature sensor installation guide

Most Phason controls use either a 3K or 20K sensor. Sensors are available in lengths ranging from 1 to 150 feet. To find out which sensor your control requires, see the reference guide on page 2.

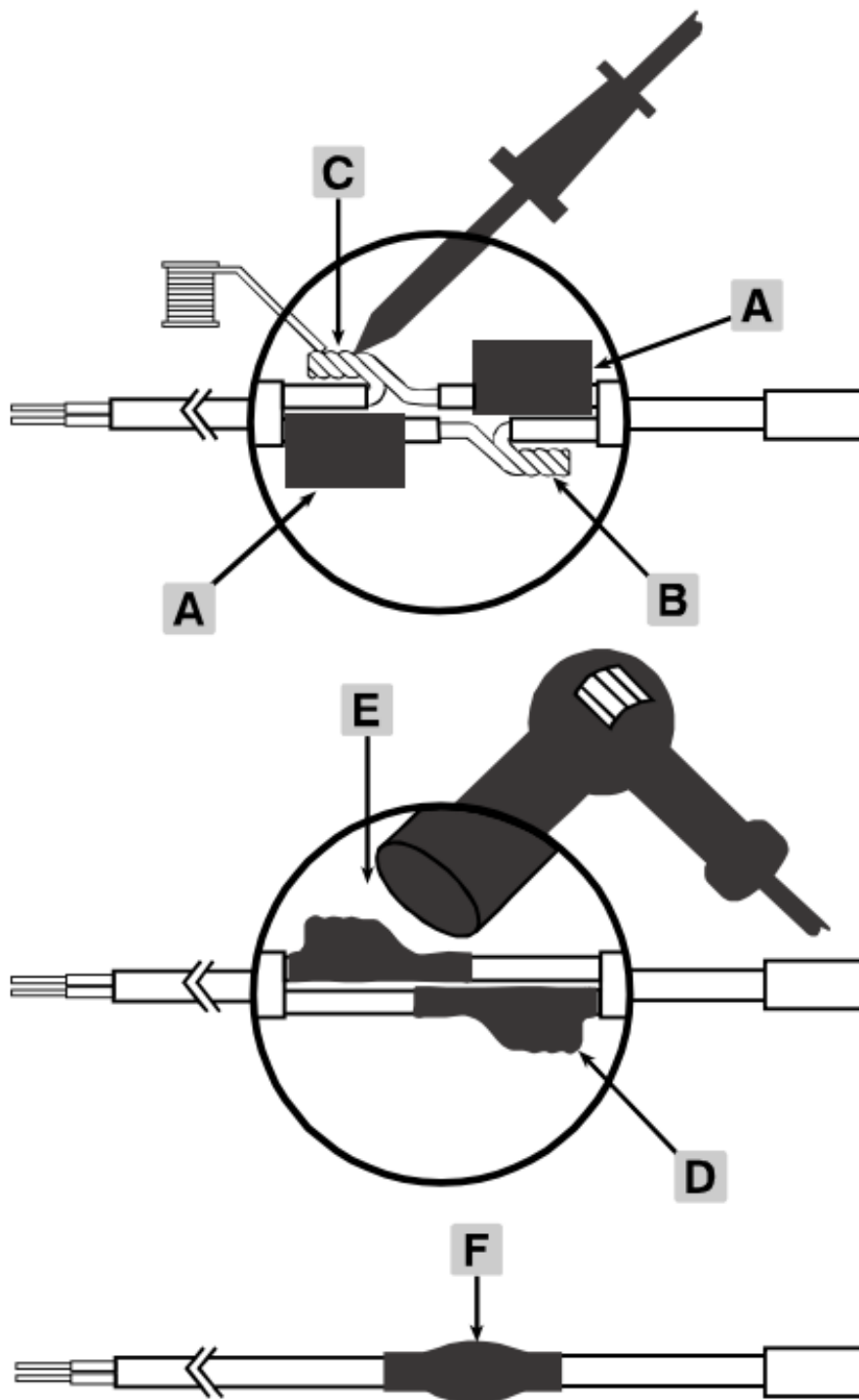Switch off the power before servicing the control.
Phason controls must be installed by a qualified electrician.

Installing sensors

Follow the guidelines below and the instruction in your control's installation guide to connect the temperature sensor.

- Do not run the sensor 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.

Extending sensor cable

- Use 2-wire 18 AWG jacketed cable. Phason recommends Belden #9408, Alpha #5052, or an equivalent. Extension cable is also available from Phason.
- Join the extension cable to the temperature sensor cable as shown in the following diagram.
- If the unit operates erratically with the extended sensor, 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 The connection should look like this.

Products using 3K sensors

AEC-2	NVC-2, NVC-2-12, NVC-2-24
AUTOFLEX (all versions)	OWS
ECC-1, ECC-2	PEC
FC-1T-1F	PEC-PLUS, PEC-PLUS-RS, PLUS-TOUCH
FC-1T-1VAC-1F	PB-1, PB-2, PB-3, PB-4, PB-5, PB-6
FC-1T-2VAC-3F	PBx-10, PBx-11
FC-1T-1VDC	SEC-DC, SEC-HD
FHC-1D	SSC-1D
HMB, HMC, PBx-HMC (See the note below)	SSV-DC
IN-4	SUPRA, SUPRA-RS, SUPRA-TOUCH
LEM	TVS
NVC, NVC-12V	VTC-1D

Compatible sensors

MT-P3B	(1 foot)
MT-P3A	(6 feet)
MT-P3A/30	(30 feet)
MT-P3A/75	(75 feet)
MT-P3A/150	(150 feet)
TP-JUNCTION-BOX	(1 foot, plus extension)

Products using 20K sensors	Compatible sensors	
FC-1T-1VAC	MT-P3	(1 foot) (30 feet)
MTC-3C, MTC-3C-8.5	MT-P3/30	
MTC-4C		

> **NOTE**

- HMB, HMC, and PBx-HMC heat mat controllers have the option to use mats that have an internal sensor (1K Ω at 25°C), such as the Hog Hearth® heat mat.
- You can extend temperature sensors up to 500 feet. Extension cable (model: W20/2X1000) is available in

1000-foot spools. For more information, contact your dealer.

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Documents / Resources

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