

HEAT-TIMER®

INSTALLATION AND OPERATION INSTRUCTIONS

Pressure and Vacuum Transducers

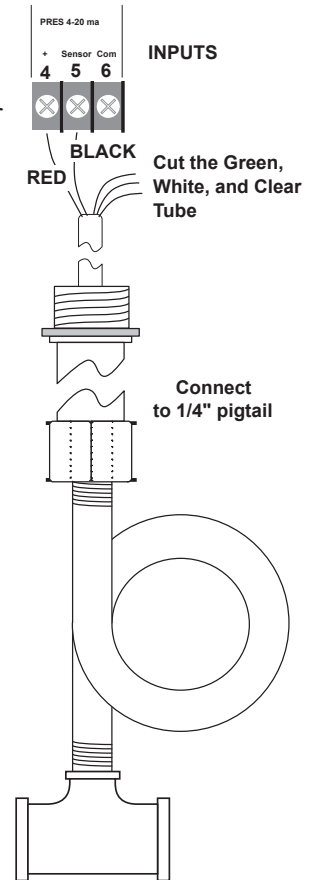
Heat-Timer Transducers range from Pressure to Vacuum. Transducers operate based on the Heat-Timer control settings. Make sure the transducer used correspond to the Heat-Timer control and its operating settings. Most importantly, make sure that the transducer used correspond to the application. i.e. a low pressure steam system should use a 30psi pressure transducer. In addition, the control must be set to the same setting of 30psi. The use of higher rating pressure transducer (i.e. 100psi or 200psi transducer) on such application is acceptable. However, measurement accuracy will not be as fine tuned as with the 30psi transducer.

Installation

Install a pigtail (isolation tube) at the header between the transducer and the system pipes. This will prevent hammering from damaging the transducer. The transducer should be approximately 10' past the boiler/steam source on the supply main but before any major takeoffs.

Wiring

Pressure transducers are susceptible to damage when exposed to static electrical charges. Make sure to ground the body of the transducer prior to making any electrical connections. The Heat-Timer pressure and vacuum transducers require the user to connect only the Black and red wires. Connect the Red wire to the Heat-Timer control terminal marked (+) and connect the Black wire to the terminal marked (-). Cut the Green, White, and Clear tubes.



⚠ WARNING

Fluid hammer and surges can destroy any pressure transducer and must always be avoided. A Pig Tail should be installed to eliminate the damaging hammer effects.

⚠ WARNING

This instrument is susceptible to damage when exposed to static electrical charges. To avoid damage to the transducer observe the following:

- Ground the body of the transducer **BEFORE** making any electrical connections. Note: The braided shield and drain wire in the cable (if supplied) is not connected to the transducer body, and is not a suitable ground.
- When disconnecting, remove the ground **LAST**.

⚠ WARNING

Pressure spikes in excess of the rated overpressure capability of the transmitter (transducer) may cause irreversible electrical and/or mechanical damage to the pressure measuring and containing element(s).