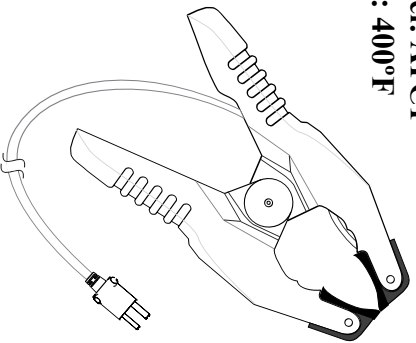


Pipe Clamp-on, K-type, Thermocouple

For pipes to 1 3/8" diameter

Model: ATC1

Max: 400°F



Fieldpiece
OPERATOR'S MANUAL

Description

The ATC1, K-Type, pipe clamp thermocouple can be used to take temperature of pipes or any other cylindrical surface under 1 3/8" outside diameter. The ATC1 can greatly facilitate taking a superheat or subcooling measurement on most residential and commercial refrigeration appliances or air conditioners. The ATC1 can even take the temperature measurements of pipes that are fixed to walls or other surfaces. The ATC1 can be used with any thermometer which accepts a K-type thermocouple. The ATC1's clamping ability allows the user to affix the ATC1 to a pipe for an accurate, hands free measurement. The ATC1 will also stay put in virtually any pipe orientation including vertical pipes.

Operation

To use the ATC1, plug it into any thermometer accepting a K-type thermocouple and adjust the device to the appropriate settings. Simply clamp it to a pipe and take measurement when reading stabilizes.

Calibration

Due to variances in the thermocouple wire and other parts of the system, a field calibration should be conducted before use. Field calibration typically gives +/- 1°F overall accuracy. The instructions for this calibration should be in the operating manual for the thermometer.

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Specifications

Pipe diameter: Jaw opens from 3/8" to 1 3/8".

Thermocouple conductors: K-Type nickel chromium/ nickel aluminum, 2300°F maximum (pipe clamp resin and insulation limits max. See probe insulation and clamp resin).

Accuracy: -50°F to 180°F +/- .4°F

Range: -50°F to 180°F

Probe insulation and clamp resin: While calibration and atmosphere will affect maximum useful temperature in applications, the wire insulation and clamp resin are designed to withstand a maximum continuous use at 180°F (82°C).

Plug: K-type thermocouple male mini plug.

Typical stabilization time: less than 1 minute.

⚠ WARNINGS ⚠

When testing hot pipes or cylinders, the thermocouple and metal band may become hot. Do not handle the thermocouple or the metal band when hot.

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Warranty

The ATC1, K-Type, clamp-on thermocouple is warranted against manufacturer's defects for one year. This warranty does not apply to defects resulting from abuse, neglect, accident, unauthorized repair, alteration, or unreasonable use of the instrument. Any implied warranty arising out of the sale of Fieldpiece's products including but not limited to implied warranties of merchantability, and fitness for purpose, are limited to the above. Fieldpiece shall not be liable for incidental or consequential damages.

Service

Any defective ATC1 should be returned to Fieldpiece for warranty service along with proof of purchase. Out of warranty repair charge is \$30.

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