

Models: ATC1 and ATC1R
Pipe Clamp K-type Thermocouple
Max: 257°F (125°C)

Description

The ATC1 and ATC1R, K-type, pipe clamp thermocouples, can be used to take temperatures of pipes or any other cylindrical surface within their jaw range. Using a pipe clamp thermocouple greatly facilitates taking superheat or subcooling measurements. Use the ATC1 for most A/C units and the ATC1R for most residential and commercial refrigeration appliances. Both models can be used with any thermometer accepting a K-type thermocouple.

Advantages

The sensor is virtually isolated from ambient conditions, allowing the thermocouple to read the true pipe temperature for as long as it is attached.

The sensor's large surface area and increased clamping force help the sensor reach the correct temperature within 30 seconds.

Because the jaw is designed for HVAC/R, its clamping ability lets you measure temperatures of pipes that are fixed, at any angle, to walls or other surfaces.

Operation

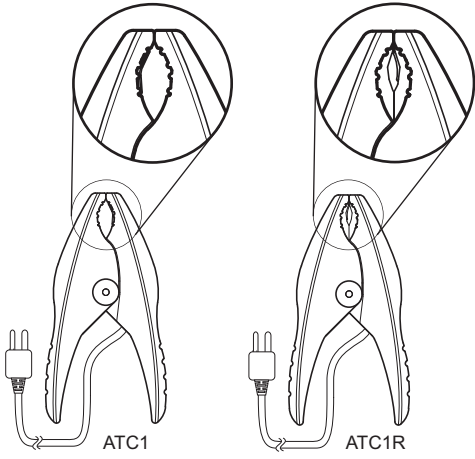
Plug the ATC1 or ATC1R into any thermometer accepting a K-type thermocouple and adjust the thermometer to the appropriate settings. Simply clamp the thermocouple to a pipe and take the measurement when the reading stabilizes.

Field 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 (0.5°C) overall accuracy. Refer to the thermometer's operating manual for calibration instructions.

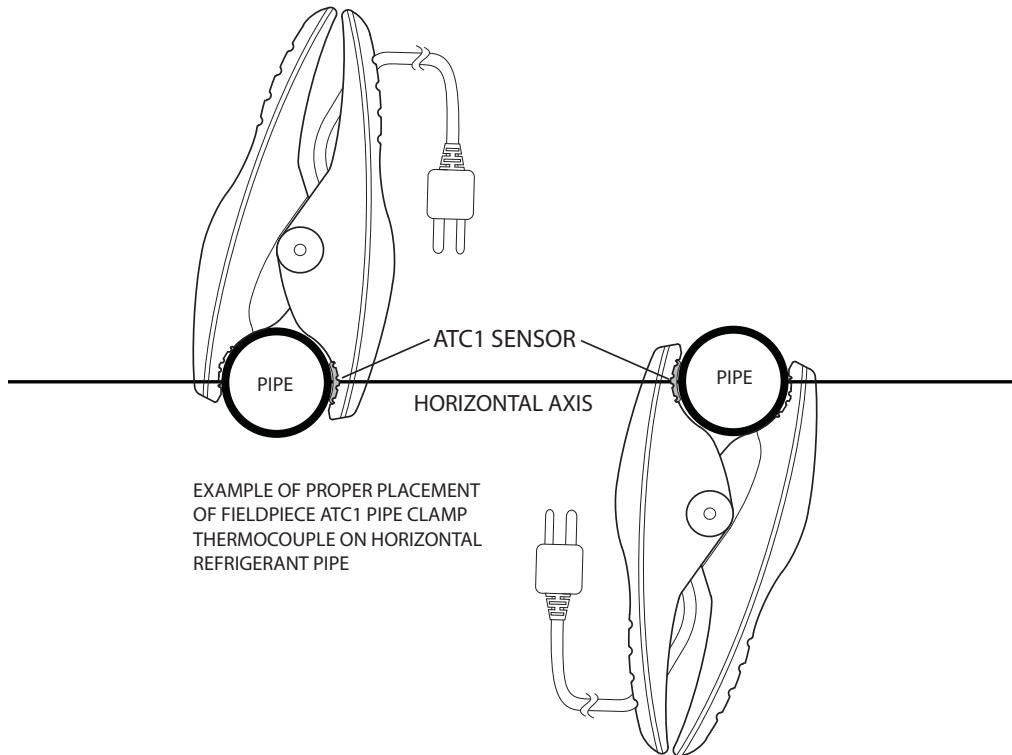
Specifications

- ATC1 jaw range:** 3/8" to 1 3/8" pipe diameter (OD)
- ATC1R jaw range:** 1/8" to 3/4" pipe diameter (OD)
- Accuracy:** +/- 4°F (2°C) ; ±1°F (0.5°C) after field calibration, 32 to 176°F (0 to 80°C)
- Temperature range:** -50 to 257°F (-46 to 125°C)
- Thermocouple conductors:** K-type nickel chromium/nickel aluminum.
- Probe insulation and clamp material:** While calibration and atmosphere will affect maximum useful temperature in applications, the wire insulation and clamp material are designed to withstand a maximum continuous use at 257°F (125°C).
- Plug:** K-type thermocouple male mini plug.
- Typical stabilization time:** less than 30 seconds.



⚠ WARNINGS ⚠

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



Warranty

The ATC1 and ATC1R, K-type, clamp-on thermocouples are 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

Return any defective ATC1 or ATC1R to Fieldpiece for warranty service along with proof of purchase. Contact Fieldpiece for out of warranty repair charges.