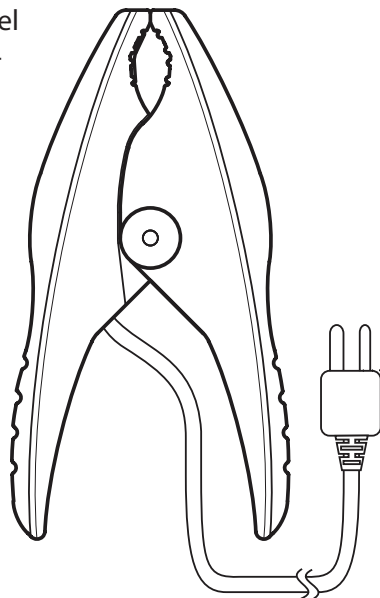


# Fieldpiece

## Pipe Clamp Type K Thermocouple (3/8" to 1 3/8")

### OPERATOR'S MANUAL

Model TC24



### WARNING

Do not remove the clamp from a pipe by pulling on the cord. Doing so may damage the sensor. The entire TC24 may become hot when testing hot pipes or cylinders. Use caution handling.

### Quick Start

1. Plug your TC24 into any type K thermocouple jack.
2. Perform a field calibration for best accuracy.
3. Clamp onto suction or liquid line.
4. 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  $\pm 1^\circ\text{F}$  ( $0.5^\circ\text{C}$ ) overall accuracy. Refer to your meter's operating manual for calibration instructions.

### Description

Use your new TC24 Pipe Clamp Type K Thermocouple to take temperatures of pipes or any other cylindrical surface between 3/8" and 1 3/8".

The clamping range covers most sizes seen in residential and commercial cooling systems. Connect to any thermometer with a Type K thermocouple jack.

The sensing strips are made of actual thermocouple material to make readings extremely accurate and fast.

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



Ground Plane

### Specifications

**Pipe Size Compatibility:** 3/8" to 1 3/8" OD (9.5mm to 34.9mm OD)

**Sensor Type:** Type K thermocouple (nickel chromium/nickel aluminum)

**Plug Type:** Type K male mini plug

**Cable Length:** 6 feet (1.8 m)

**Measurement Range:**

-50°F to 257°F (-46°C to 125°C)

Plastic body and wire insulation are designed to withstand a maximum continuous temperature of 257°F (125°C).

**Accuracy:**

(Stated accuracies and stabilization times lab tested on 33°F pipe, 75°F ambient, after field calibration)

3/8" pipe:  $\pm(2^\circ\text{F})$  within 45 seconds\*

3/4" pipe:  $\pm(2^\circ\text{F})$  within 30 seconds\*

1 3/8" pipe:  $\pm(2^\circ\text{F})$  within 30 seconds\*

\*Meets California Title 24 Specifications

**Dimensions:** 135mm(H) x 72mm(W) x 35mm(D)

**Weight:** Approx. 140g

### Limited Warranty

This product is warranted against defects in material or workmanship for one year from date of purchase from an authorized Fieldpiece dealer. Fieldpiece will replace or repair the defective unit, at its option, subject to verification of the defect.

This warranty does not apply to defects resulting from abuse, neglect, accident, unauthorized repair, alteration, or unreasonable use of the instrument.

Any implied warranties arising from the sale of a Fieldpiece product, including but not limited to implied warranties of merchantability and fitness for a particular purpose, are limited to the above. Fieldpiece shall not be liable for loss of use of the instrument or other incidental or consequential damages, expenses, or economic loss, or for any claim of such damage, expenses, or economic loss.

State laws vary. The above limitations or exclusions may not apply to you.

### For Service

Email Fieldpiece warranty department at [fpwarranty@fieldpiece.com](mailto:fpwarranty@fieldpiece.com) for current fixed price repair service. Send check or money order made out to Fieldpiece Instruments for the amount quoted. If your meter is under warranty there will be no cost for the repair/replacement. Send your meter, freight prepaid, to Fieldpiece Instruments. Send proof of date and location of purchase for in-warranty service. The meter will be repaired or replaced, at the option of Fieldpiece, and returned via least cost transportation.

For international customers, warranty for products purchased outside of the U.S. should be handled through local distributors. Visit our website to find your local distributor.

**Fieldpiece**  
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