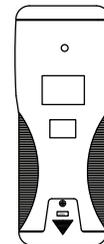
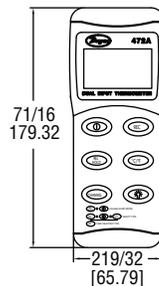
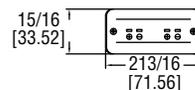




## Model 472A-1 Dual Input Thermocouple Thermometer

### Specifications - Installation and Operating Instructions



The Model 472A-1 Dual Input Thermocouple Thermometer precisely measures up to two temperature measurements simultaneously. The large LCD display shows both temperature inputs or one temperature input and the differential temperature. Any J, K, or T type thermocouple with a mini-jack connector can be used as an input. For viewing in poorly lit environments, the built-in backlight brightens the display. A hold button allows the user to freeze temperature data displayed and minimum and maximum readings can be recorded over a set time period. Model 472A-1 includes a hard carrying case, battery, and one K type thermocouple.

#### SPECIFICATIONS

**Inputs:** Type J, K, T thermocouples.

**Power Requirements:** 9 V, alkaline battery, installed non-functional, user replaceable.

#### Measurement Ranges:

J-type: -328° to 1400°F (-200° to 760°C);

K-type: -328° to 2498°F (-200° to 1370°C);

T-type: -328° to 734°F (-200° to 390°C);

**Accuracy:** ±0.1% reading + 1.4°F (0.7°C).

**Operating Temperature:** 32° to 122°F (0° to 50°C).

**Operating Humidity (Non-Condensing):** 0 to 85% relative humidity.

**Display:** Triple LCD display.

**Resolution:** 0.1°C up to 500°C.

**Weight:** 1.47 lb.

**Agency Approval:** CE.

#### OPERATING INSTRUCTIONS

##### Taking Measurements

Step 1: Before the meter is turned on, insert any J, K, or T type thermocouple(s) that has a mini plug connection into the top of the meter.

Step 2: Press the button to turn the meter on.

Step 3: After three seconds, the primary larger display will show the value for Probe 1 and the secondary display will show the value for Probe 2.

Step 4: If viewing in a dark area, press the button momentarily to activate backlight.

##### Changing Engineering Units

Press the button to toggle between degrees Celsius and degrees Fahrenheit.

##### Selection of Display Measurements

Press the button to switch the main display between Probe 1 measurement, Probe 2 measurement, and the Differential Temperature (Probe 1 – Probe 2). The secondary display will show the opposite probe temperature from the main display. While the main display shows the Differential Temperature, the secondary display will toggle between the values of Probe 1 and Probe 2.

##### Data Hold

Press and release the button to freeze the primary temperature display. "HOLD" will appear at the top of the screen.

In order to return to normal operation, press the button again and the "HOLD" icon disappears from the display.

##### Selecting Thermocouple Input Type

Step 1: While the meter is off, press and hold the and buttons until the current thermocouple type shows on the left side of the display.

Step 2: Press the button to toggle between K, J and T thermocouple types.

Step 3: Press the button to save the selection. An "S" will appear on the display to show that the setting has been saved.

##### Max and Min Data Recording

Press the button momentarily and the "REC" icon will appear on the display. While the "REC" icon appears on the display, the minimum and maximum readings are recorded for the duration of time the meter is in record mode.

Press the button in order to display the maximum temperature recorded. Press again in order to display the minimum temperature recorded.

To return to normal operation, press and hold the button for 3 seconds.

**Note:** When the button is pressed, all other buttons are disabled except the power and backlight buttons.

##### Automatic Power Off (Sleep Mode)

The instrument will shut off automatically after 20 minutes of use to conserve battery life if no button is pressed.

To disable the sleep mode, press and the buttons simultaneously before power on. An "h" icon will appear in the center of the display once disabled.

## BATTERY REPLACEMENT

The Dual Input Thermocouple Thermometer displays "BAT" as a visual low battery indication.

### NOTICE

If the thermometer fails to power on, it is likely that the batteries also need to be replaced.

### To Replace the Battery:

1. Make sure the unit is powered off.
2. Remove thermocouples from the top of the instrument.
3. Lay face down on a clean, flat surface.
4. Open battery compartment by pushing in tab and lifting cover.
5. Replace battery, taking note of the indicated polarity.
6. Replace the cover.

### NOTICE

Failing to turn the thermometer off may result in malfunction of the unit. Dispose of used battery promptly and keep away from children.

## MAINTENANCE

A periodic check of the system calibration is recommended. Model 472A-1 is not field serviceable and should be returned if repair is needed (field repair should not be attempted and may void warranty). Be sure to include a brief description of the problem plus any relevant application notes. Contact customer service to receive a return goods authorization number before shipping.