

## PANEL-STYLE TEMPERATURE MONITORS

Models 7512 & 7612

These thermocouple monitors were designed for industrial or commercial applications that require monitoring of 12 locations economically. The circuits have been optimized to deliver accuracy and stability over a wide environmental range, and the simple mechanical construction minimizes the cost. Typical applications include monitoring HVAC systems, baking/curing ovens, food or medical freezers, solar installations, refrigeration equipment, motor bearings, etc.

### FEATURES:

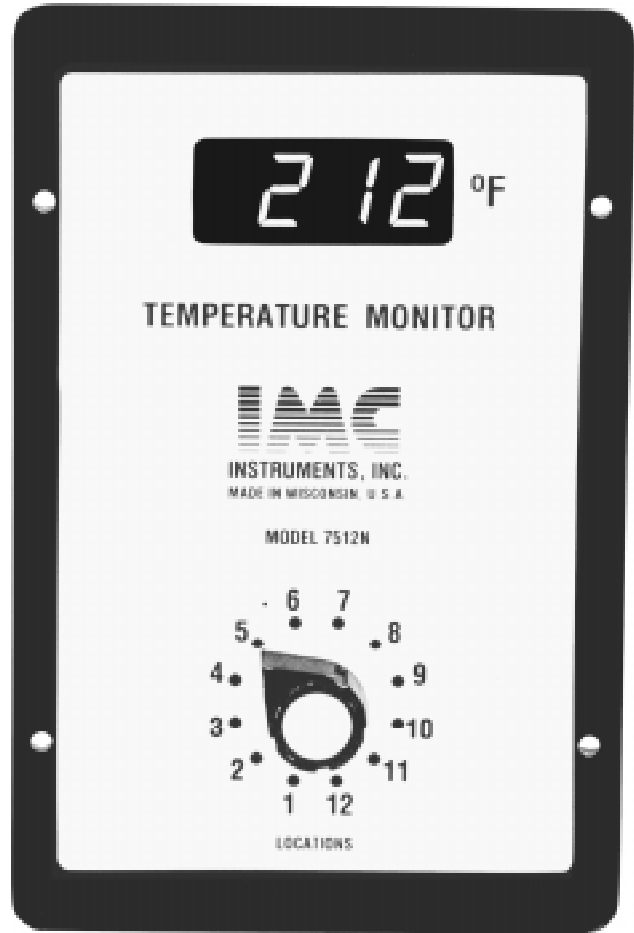
**TC calibrations** available are **T, K, J or E** linearized in four sections for good accuracy (narrow range, lower cost calibrations are available on special order).

**RTD cold junction** compensates accurately for ambient temperature changes as fast as 2° per minute.

**High impedance circuit** allows use of probes with up to 1000 ft. of 24 ga. wire. Several transformer isolated monitors can connect to the same probe.

**Large bright display** is about ½" high red for excellent readability. Individual digits are mounted in sockets for simple replacement.

**Long-life rotary selector** for displaying 12 thermocouple inputs. Selector knob has large pointer for clear indication of locations.



**ENGINEERED AND MANUFACTURED IN WI, U.S.A.**

**Polymer coated circuit** will perform indefinitely even in high humidity environments.

### SPECIFICATIONS:

#### **Display Range:**

-199 to 1999 °F or °C. Usable range varies with TC type (see ordering section).

#### **Measuring Accuracy:**

± ½% of reading ±1 degree using ANSI millivolt-temperature standards.

#### **Instrument Environmental Range:**

-15° to 130°F or -26° to 54°C and 90% R.H. max. (no condensation).

#### **Cold Junction Offset:**

One degree max. for an ambient range of 32° to 110°F or 0° to 43°C.

#### **Display Indication:**

Updated three times per second on LED digits 0.56 (14 mm) high.

#### **Construction:**

Aluminum front panel and open back for simple installation into a cutout on any suitable cabinet.

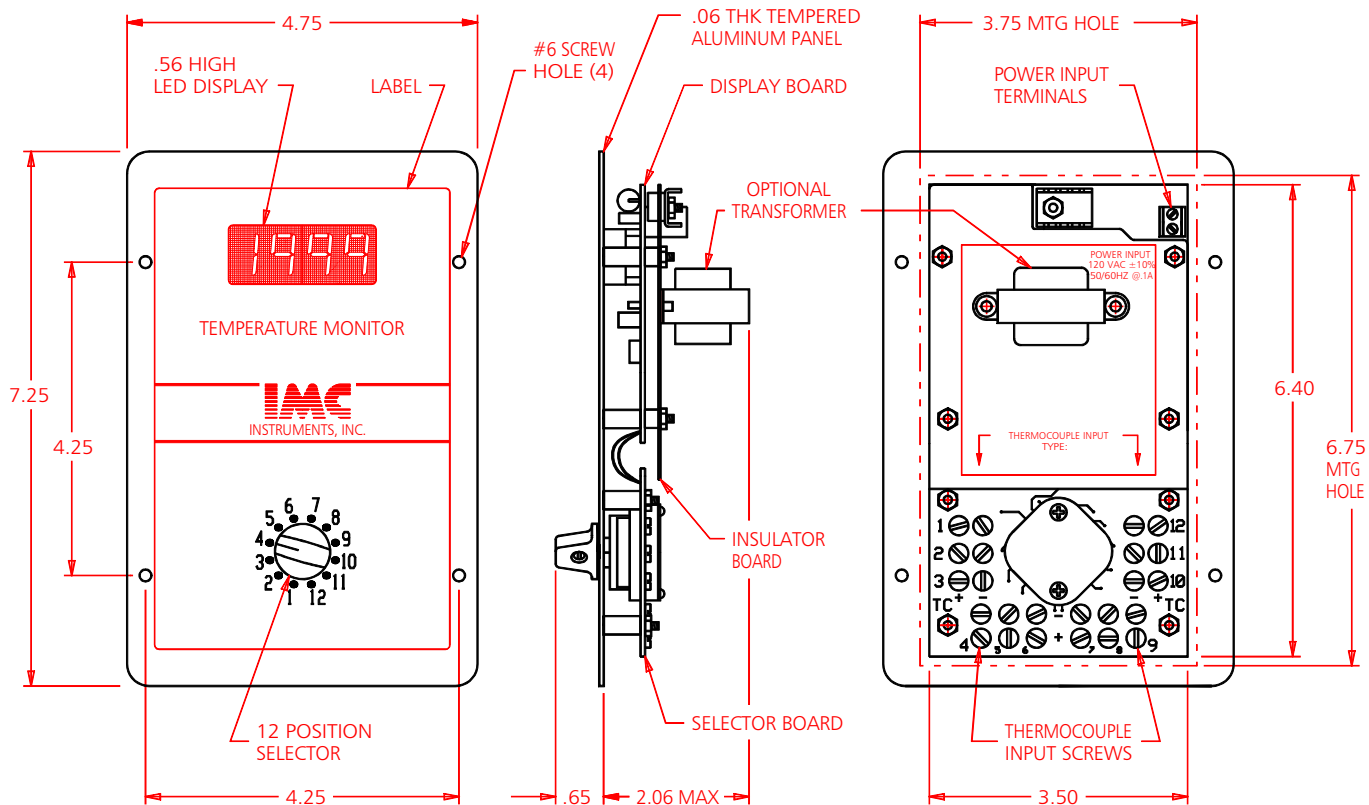
#### **Power Requirement:**

Isolated 10-12 VAC 50/60 HZ at 0.15 A max. Optional transformers are available.

#### **Weight:**

Appx. 1.0 lb. (0.5 kg.) without transformer.

**MECHANICAL DETAIL:** Model 9420-7512



ALL DIMENSIONS ARE INCHES\*

**ORDERING INFORMATION:**

Refer to sheet titled "PERMANENT INSTALLATION TC PROBES" for the selection of wire and probes to complete any measuring system. All prices listed below are F.O.B. factory or distributor warehouse. Contact distributor listed below for assistance. Products are warranted against material or workmanship defects for a full year from date of shipment.

**POWER INPUT:** \_\_\_\_\_

- Standard 10-12 VAC 50/60 HZ isolated input
- Truck 12 DC negative ground (use ungrounded probes)
- Back mounted transformer for
 

24 VAC 50/60 HZ
120 VAC 50/60 HZ
230 VAC 50/60 HZ

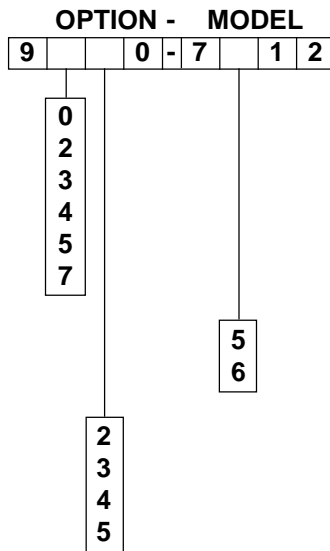
Flanged transformer - remote mtg. (U.L. listed) 120 VAC

**SCALE:** \_\_\_\_\_

- Fahrenheit reading
- Celsius reading

**THERMOCOUPLE CALIBRATION:** \_\_\_\_\_

- K type 1/2% range is -60 to 2000°F (-50 to 1100°C)
- T type 1/2% range is -60 to 400 °F (-50 to 205°C)
- J type 1/2% range is -60 to 1400°F (-50 to 750°C)
- E type 1/2% range is -60 to 1650°F (-50 to 900°C)



\* Specifications are subject to change without notice

DS7512-02/97



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