

MULTI-STATION PORTABLE THERMOCOUPLE MONITORS Models 7706N/NX & 7806N/NX

These thermocouple monitors were designed to assist field technicians with testing or calibrating HVAC / refrigeration / solar systems, baking or curing ovens, motors, engines and much more. Instant response circuits allow a technician to compare up to 6 temperature probes quickly. These circuits have been optimized to deliver accuracy and stability over a wide environmental range. The durable carrying case is compact and features a compartment for storing wire and probes.

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.

LCD display is ½" high, sunlight readable and alkaline battery powered. Optional bright LED display for line powered model.

High impedance design allows use of probes with up to 1000 feet using 24 ga. TC wire. Connector jacks allow the convenience of quick probe changes.

Long-life rotary selector for displaying up to 6 thermocouple inputs. Large knob with clear pointer.



Monitor 9130-7706-NX shown with optional probe and TC-T mini-plugs 3080-0311 in case storage compartment

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:

-5° to 140° F (-21 to 60° C), LED model -15° to 130° F and 90% R.H. max. (no condensation).

Cold Junction Offset:

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

Display Indication:

Updated three times per second on 0.5" LCD (liquid crystal) or 0.56" LED (light emitting).

Construction:

High-density polyethylene case with a molded compartment and an aluminum panel with meter and mini-thermocouple jacks. Outside dimensions are 12" x 8" x 3" and appx. weight is 2.0 lbs (0.9 kg).

Power Requirement:

9V alkaline battery for LCD model (900 hr-life), or line power (120 VAC) for LED model.

ORDERING INFORMATION:

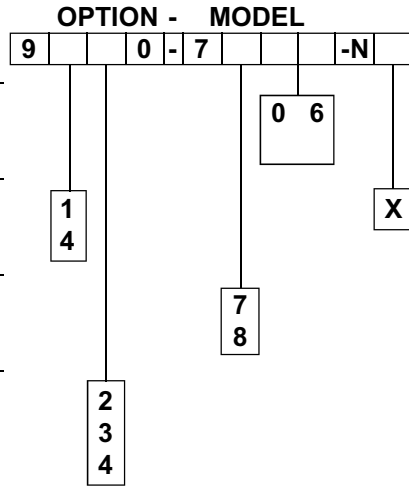
All prices listed below are F.O.B. factory or distributor warehouse. Contact distributor listed below for assistance. Products are warranted against material or workmanship defects for a full year from date of shipment.

NUMBER OF THERMOCOUPLE INPUTS: _____
6 position selector with mini-jacks

POWER INPUT: _____
LCD display with 9V battery
LED display with 5 ft. power adaptor for 120 VAC

SCALE: _____
Fahrenheit reading
Celsius reading

THERMOCOUPLE CALIBRATION: _____
K type ½ % range is -60 to 2000 °F (-50 to 1100 °C)
T type ½ % range is -60 to 400 °F (-50 to 205 °C)
J type ½ % range is -60 to 1400 °F (-50 to 750 °C)



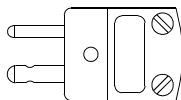
Refer to sheet titled "PERMANENT INSTALLATION TC PROBES" for the selection of probes to complete any measuring system. The following are materials to make inexpensive wire probes by assembling the connector one side and soldering or brazing the opposite end to make the measuring junction.

THERMOCOUPLE WIRE- 24GA SOLID

PART NO.	DESCRIPTION
5881-8241	TC WIRE, K PVC INSULATION -20>200 °F MAX.
5881-8242	TC WIRE, K FIBERGLASS INSUL 900 °F MAX.
5881-8243	TC WIRE, K TEFLON INSULATION 500 °F MAX.
5881-8247	TC WIRE, T PVC INSULATION -20>200 °F MAX.
5881-8248	TC WIRE, T TEFLON INSULATION 500 °F MAX.
5881-8244	TC WIRE, J PVC INSULATION -20>200 °F MAX.
5881-8245	TC WIRE, J FIBERGLASS INSUL 900 °F MAX.
5881-8246	TC WIRE, J TEFLON INSULATION 500 °F MAX.

THERMOCOUPLE CONNECTOR

PART NO.	DESCRIPTION
3080-0301	TC-K MINI-PLUG
3080-0311	TC-T MINI-PLUG
3080-0321	TC-J MINI-PLUG



* Specifications are subject to change without notice

IMC[®] INSTRUMENTS, INC.
468 Liberty Drive, Wittenberg, WI 54499
Tel: (715) 253-2801 Fax: (715) 253-2811
Website: www.imcinstruments.com

DISTRIBUTED BY: