

**INTRODUCTION**

The portable thermometers models **N305** and **N306** accurately show in their high contrast LCD display the temperature being measured by the connected thermocouplesensor.

Model **N305** has one sensor input (T1). Model **N306** has two sensor inputs and buttons T1 and T2 select the channel to be displayed. The temperature difference between the two sensors can also be shown.

Both models have Celsius or Fahrenheit selection and model **N305** displays temperature with decimals.

Sensor error can be reduced or eliminated by means of a convenient recessed from panel offset adjustment.



**FEATURES & SPECIFICATIONS**

- Temperature indication unit: Celsius or Fahrenheit.
- Measurement Range: -50 to 1300 °C (-58 to 2000 °F).
- Resolution: 1 °C or 0,1 °F (Model N306), 0,1 °C or 0,1 °F (Model N305).
- Accuracy is specified for operating temperatures over the range of 18 °C to 28 °C (64 °F to 82 °F), for 1 year, not including thermocouple error.

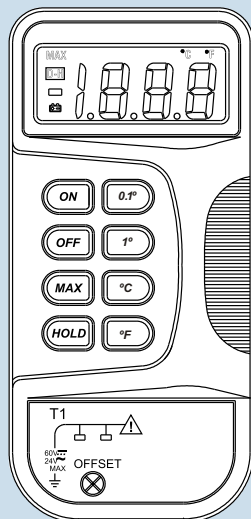
Unit	Range	Resolution	Accuracy
°C	-50 to 199.9 °C	0.1 °C	0.2 % ±1 °C
°C	-50 to 199.9 °F	0.1 °C	0.2 % ±1 °F
°C	-50 to 1000 °C	1 °C	0.3 % ±1 °C
°C	-50 to 1999 °F	1 °C	0.3 % ±1 °F
°C	-1000 to 1300 °C	1 °C	0.5 % ±1 °C

- Temperature Coefficient: 0.1 times the applicable accuracy specification per °C from 0 °C to 18 °C and 28 °C to 50 °C (32 °F to 64 °F and 82 °F to 122 °F).
- Input Protection: 60 Vdc or 24 Vrms ac maximum input voltage on any combination of input pins.

- Reading Rate: 2.5 times per second.
- Ambient Operating Range: 0 °C to 50 °C (32 °F to 122 °F).
- Storage Temperature: -20 °C to 60 °C (-4 °F to 140 °F).
- Relative Humidity: 0% to 80% (0 °C to 35 °C) (32 °F to 95 °F), 0% to 70% (35 °C to 50 °C) (95 °F to 122 °F).
- Input Connector: Accepts standard miniature thermocouple connectors (flat blades spaced 7.9 mm, center to center).
- High contrast 3½ digit LCD display .
- Mode: hold, máx, fine adjustment (offset) and T1-T2.
- Battery: Standard 9 V battery (NEDA 1604, IEC 6F22).
- Battery life: 200 hours typical with carbon zinc battery.
- Supplied Probe: 4-foot type “K” thermocouple bead probe (teflon insulated). Maximum insulation temperature 260 °C (500 °F).
- Probe accuracy: ±2.2 °C or ±0.75 % of reading (whichever is greater) from 0 °C to 800 °C.
- Dimensions: 147 mm (H) x 70 mm (W) x 39 mm(D).
- Weight: 210g (7.4 ounces).

DATA ACQUISITION, LOGGING & SUPERVISORY SYSTEMS

**MODEL N305**



**MODEL N306**

