

## 450 Series

- **±0.1% Accuracy**
- **1°/0.1° Switchable**
- **0.1° Resolution to 399.0°F, 203°C**
- **2000 Hour Battery Life**
- **Type J, K, T, E, thermocouples, Platinum RTD or Thermistor**
- **°F/°C switchable on Front Panel**
- **Data Hold**
- **Made In USA**



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### Digital Temperature Measurement

Doric provides complete portable thermometry solutions with meters, probes, and accessories. If you're looking for fast response coupled with high repeatability in surface, air, or immersion measurements, you're looking for a Doric handheld thermometer.

For maximum performance, pick from among the most accurate, reliable, and convenient handheld thermometers ever developed — the Series 450 from Doric.

Using a unique, patented noise-reduction circuit, the Series 450 achieves the high repeatability and accuracy of line-powered bench top units. A custom-designed dual IC set gives you a single instrument with wider temperature ranges, higher resolutions, and longer performance than other handheld thermometers. Data hold freezes the displayed reading for safe viewing away from hazardous measurement locations.

Battery life is unsurpassed, with a single nine-volt battery providing more than 2000 hours of use. An externally available zero pot, conveniently

located at the back of the instrument, lets you match ice point calibrations to specific probes for even greater system accuracy.

The 450s are available in thermocouple, RTD, or thermistor configurations. Please specify when ordering.

Model 450K is for use with Type K thermocouple probes and provides the fastest response time over a wide temperature range. Model 450PT is for use with platinum RTDs, which will provide the greatest system accuracy over a wide range. The thermistor version, Model 450TH, is a fixed 0.1 F/ C high-resolution meter and is compatible with thermistor probes that offer high accuracy in a narrow, low-temperature range. Meter versions are also available for use with existing Type J, E, and T thermocouples.

For years of reliable, accurate temperature measurements, get the only handheld thermometer that measures up to the standards of bench top units — the Series 450 from Doric.

<b>Range Table</b>					
<b>Model</b>	<b>Sensor</b>	<b>1°C</b>	<b>1°F</b>	<b>0.°C</b>	<b>0.°F</b>
450K	K T/C	-189° to +1372°	-308° to +2501°	-139.8° to +203.7°	-219.7° to +398.7°
450E	E T/C	-212° to +1006°	-350° to +1844°	-137.0° to +203.0°	-215.0° to +398.0°
450J	J T/C	-194° to +1014°	-318° to +1858°	-117.0° to +203.5°	-179.4° to +398.3°
450T	T T/C	-217° to +403°	-360° to +758°	-148.2° to +203.9°	-234.8° to +399.0°
450PT	Pt RTD	-233° to +904°	-387° to +1660°	-102.0° to +203.0°	-152.0° to +397.0°
450TH	Thermistor	--	--	-25.0° to +103.0°	-14.0° to +217.0°
<b>General Specifications</b>					
<b>Accuracy</b>	<b>1°C Range</b>	<b>1°F Range</b>	<b>0.1°C</b>	<b>0.1°F</b>	
Thermocouple	±0.1% rdg, ±0.8°C	±0.1% rdg, ±1.4°F	±0.1% rdg, ±0.3°C	±0.1% rdg, ±0.54°F	
RTD	±0.1% rdg, ±0.8°C	±0.1% rdg, ±1.4°F	±0.1% rdg, ±0.25°C	±0.1% rdg, ±0.45°F	
Thermistor			±0.1% rdg, ±0.25°C	±0.1% rdg, ±0.45°F	
<b>Display</b> 0.3" (8mm) LCD					
<b>Resolution</b> 1°/0.1°F and °C					
<b>Linearization</b> 100% digital in custom ASIC					

**Reference Junction Tracking**

±0.03°/°C, 5-45°C  
±0.05°/°F, 41-113°F

**Operating Temperature Range**

0-50°C/32-122°F

**Probe Connection**

Thermocouple: Standard sub-mini T/C,  
RTD: 3-pin TA3M  
Thermistor: 1/4" phone jack

**Battery Type/Life**

9V NEDA #1604 (included)  
Thermocouple: 2000 hours  
RTD: 500 hours  
Thermistor: 1200 hours

**Size**

(H x W x D) 5.7" x 3.3" x 1.8"  
(144mm x 85mm x 45mm)

**Weight**

9 oz. (255g)

**Warranty**

One year