

ACCESSORIES

Digital Voltmeters & DMM's

capability. Primarily intended for ambient and surface measurements, the probe provides a direct temperature conversion of 1 mV per degree. In use, the temperature-to-voltage converter box is plugged into the dc input of the DMM and the probe tip exposed to the material to be measured. An outstanding feature of particular importance to electronically-oriented users is the probe's ability to stand off voltages to 350V dc that may be present on devices whose temperature is being measured. Resolution is 0.1° on the 200 mV range of a 3½-digit DMM. Order 80T-150C to read degrees Celsius or 80T-150F to read degrees Fahrenheit. A probe may be made to indicate either °C or °F but must be calibrated when you make a change.

Temperature Range: -50°C to +150°C (80T-150C); -58°F to +302°F (80T-150F)

Range Selection: Internal jumper

Sensitivity: 1 mV per °C or °F

Resolution: 0.1°C or 0.1°F recc

Ambient Temperature Range:

Relative Humidity: ≤80%, non

Accuracy: (Including nomin:

+15°C to +35°C ambient) ±2°C

from -50°C to -25°C or +125°C

for ambient below 15°C or abo

DMM Compatibility: 80T-150

impedance (≥1 MΩ input) dc vc

the probe includes a nominal 0.

Maximum Voltage: 350V dc c

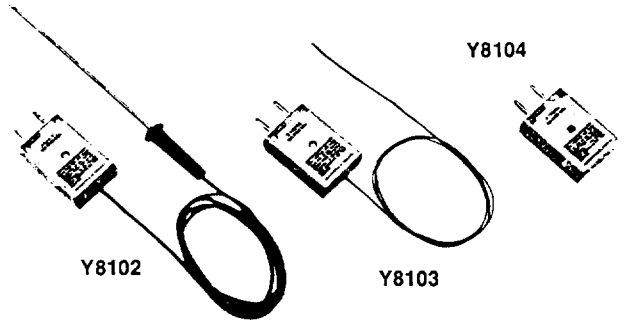
Low

Setting Time: 8 seconds to se

change at sensor tip

Power: Internal disposable batt

Controls: Power ON-OFF switch



Thermocouple Temperature Probes

Y8102 Type K Thermocouple Probe

Designed for use with Fluke 8024A and 8024B Digital Voltmeter. Sheath material is Inconel, especially good for liquid immersion measurements.

Time Constant: 10 seconds, for air at room temperature and one atmosphere of pressure moving 65 feet per second

Temperature Range: 0°C to 926°C (32°F to 1700°F)

Accuracy: ±2.2°C from 0°C to 276.7°C and ±0.75% of reading from 276.7C to 926°C

Probe Diameter: 3.18 mm (1/8 inch)

Probe Length: 15.2 cm (6 inches)

Conductor Length: 1.12 meters (48 inches)

Y8103 Type K Bead Thermocouple

For use with 8024A and 8024B in any application except liquid immersion or penetration. Exposed tip provides fast response. Teflon insulation. Four feet.

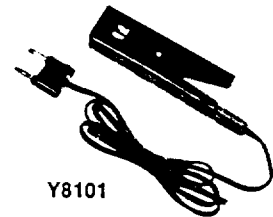
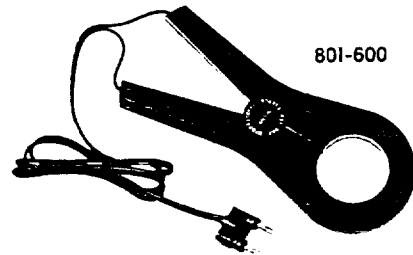
Time Constant: 2 seconds, for air at room temperature and one atmosphere of pressure moving 65 feet per second

Temperature Range: -150°C to +260°C (-238°F to +500°F)

Accuracy: ±2.2°C from -17.8°C to +260°C

Y8104 Thermocouple Termination

Provides isothermal termination for any Type K thermocouple wire connected to 8024A and 8024B. Maximum wire size is #14 AWG. Ensures no temperature difference between the junctions created by the instrument terminals in contact with the thermocouple terminals.



Current Measurement Devices

Y8100 Clamp-on DC or AC Current Probe

The Model Y8100 is a Hall-effect probe that is battery powered with size AA cells. It measures current to 200A dc or ac rms using most any voltmeter. Two ranges, 20A and 200A, produce a 2V output at full-range current. The probe accepts 1.9 cm (3/4 inch) wire and is insulated for 480V ac rms, 600V dc or peak ac. Accuracy is ±2% of range, dc to 200 Hz. From 200 Hz to 1 kHz, below 100 amps, add ±3% of reading.

See page 183 for accessory prices.