

## MEAS 400 and 500 Series Laboratory Probes

Cost-effective MEAS probes measure temperature with MEAS interchangeable thermistors, a highly accurate temperature technology that MEAS invented and perfected over the decades. This thermal expertise, in combination with regulatory experience, manufacturing automation, and custom capability, positions MEAS as a leader in temperature measurement for laboratory applications.

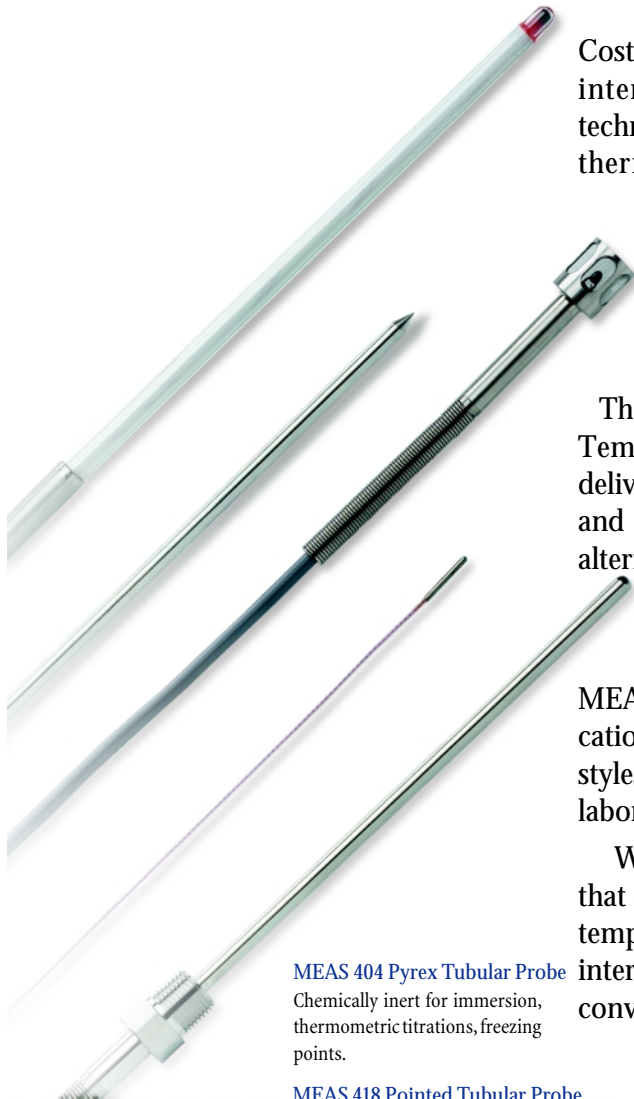
### MEAS 400 Series Reusable Temperature Probes

The worldwide standard in clinical temperature measurement, MEAS Temperature reusable probes are environmentally friendly and deliver unsurpassed performance. Premium quality, maximum safety, and proven dependability – the MEAS 400 Series is a safe, reliable alternative to disposable products.

### MEAS 500 Series Reusable Temperature Probes

MEAS 500 Series temperature probes are designed for applications requiring small size and rapid response. Available in two styles – hypodermic and catheter – MEAS 500 Series probes are ideal for laboratory and research applications.

While all MEAS Series probes can be used with any MEAS thermometer that accepts a MEAS 400 Series probe, the small size of the thermistor temperature sensor prevents use of our patented process for probe interchangeability. Therefore, a chart is supplied with each probe for conversion of indicated temperature to actual temperature.



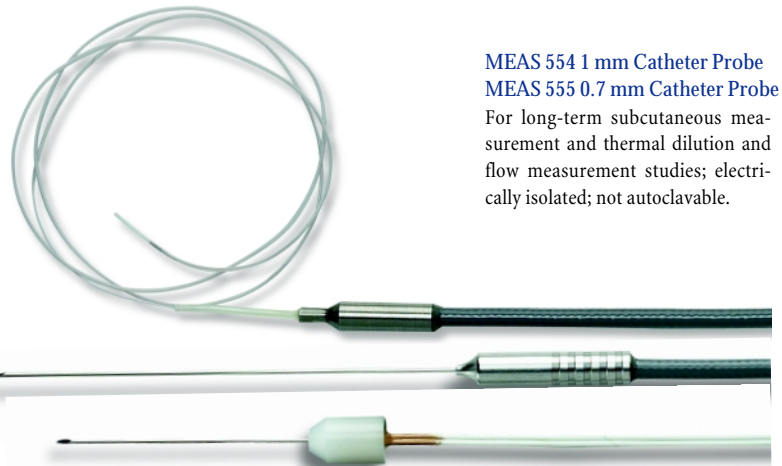
**MEAS 404 Pyrex Tubular Probe**  
Chemically inert for immersion, thermometric titrations, freezing points.

**MEAS 418 Pointed Tubular Probe**  
316 stainless steel; for semi-solids such as meat, fruit, tobacco, etc.

**MEAS 405 Gas/Air Probe**  
Measures or monitors ambient air temperature in test rooms, incubators, surgical suites; rugged construction features stainless steel cage around epoxy-encapsulated sensor.

**MEAS 451 1.3 mm Tubular Probe**  
Stainless steel tip for added strength; for short-term immersion in small liquid samples such as cuvettes and micro pipettes.

**MEAS 410 Tubular with NPT Fitting Probe**  
Withstands 500 psi; 316 stainless steel for use in pipes and vessels.



**MEAS 554 1 mm Catheter Probe**  
**MEAS 555 0.7 mm Catheter Probe**  
For long-term subcutaneous measurement and thermal dilution and flow measurement studies; electrically isolated; not autoclavable.

**MEAS 551 20-Gauge Hypodermic Probe**  
**MEAS 552 22-Gauge Hypodermic Probe**  
For subcutaneous, intramuscular, intravenous, and small area measurement; epoxy-sealed; not electrically isolated.

To order or for more information, contact your local representative or the Measurement Specialties customer service team.

**937 427-1231**

800 747-5367 U.S. only  
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ISO 9001  
AS9100

## MEAS 400 Series Laboratory Probes Specifications

<b>Temperature Range</b>	-40° to 150°C (-40° to 300°F), typically
<b>Accuracy</b>	±0.4°C at -40°C, ±0.1°C from 0° to 70°C; ±0.2°C at 100°C; ±0.4°C at 150°C
<b>Leads</b>	Non-detachable 3 m (10 ft) vinyl-covered wire. Junction between probe and leads should not be immersed.
<b>Termination</b>	Right-angle molded .25" phone plug. Gray (400 Series) plug is 2-conductor.

## MEAS 500 Series Laboratory Probes Specifications

<b>Temperature Range</b>	0° to 70°C (32° to 158°F)
<b>Accuracy</b>	Probes are not interchangeable. Measurement accuracy is influenced by possible errors from thermistor self-heating, which can produce small errors and must be determined in the specific measurement circumstance.
<b>Time Constant</b>	0.2 sec.
<b>Conversion Charts</b>	MEAS provides a 0 to 70 C temperature conversion chart with each probe. MEAS can re-calibrate old probes and provide new conversion charts.
<b>Leads</b>	Non-detachable 3 m (10 ft) vinyl-covered wire. Junction between probe and leads should not be immersed.
<b>Termination</b>	Right-angle molded .25" phone plug.

### Dependability

- MEAS probes deliver continuous, high-precision measurement

### Repeatability

- Every MEAS probe is traceable to the U.S. National Institute of Standards and Technology (NIST)

### Interchangeability

- MEAS' patented manufacturing techniques ensure that probes are interchangeable within the same series