

# Thermistor Probes

## Series 700

### Linear



**ALL MODELS AVAILABLE  
FOR FAST DELIVERY!**

Series 700 Linear Response probe assemblies are fitted with precision 44018 linear thermistor elements rated to 100°C (212°F). Each is supplied with 3 m (10') of vinyl covered lead wire. A three (3) conductor phone plug is standard termination. To order longer leads, place an "x" after the model number and specify length up to 76 m (250'). Additional lead lengths are available at \$0.80 per 300 mm (12"). Please see Section M.

#### Laboratory

**OL-701-PP** General Purpose  
Water resistant. Can be buried for sub-soil readings.

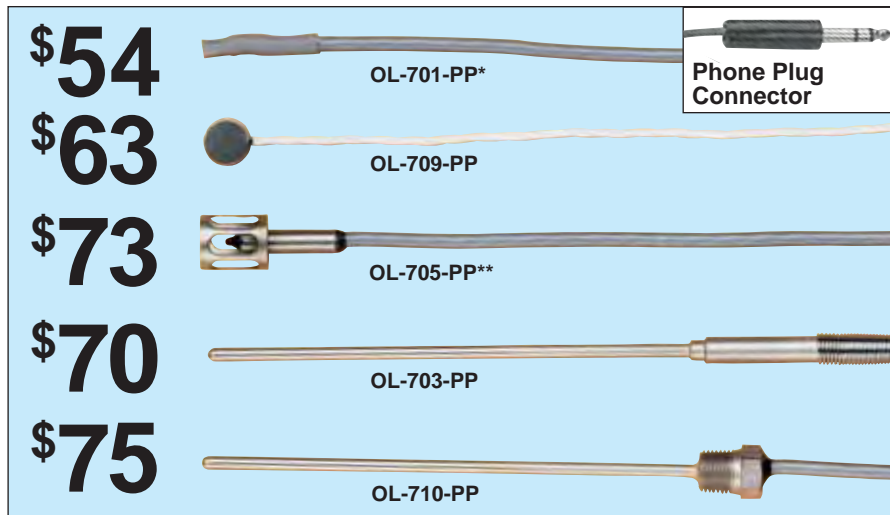
**OL-709-PP** Attachable Surface  
Temperature Stainless steel cup, epoxy backed. Easy to tape on flat surfaces.

**OL-705-PP** Air Temperature Stainless steel probe suitable for test rooms, incubators, remote air readings.

**OL-706-PP** Same as the **OL-705-PP**, but with an economical plastic housing.

**OL-703-PP** Tubular Stainless steel probe for rugged duty. Often used for liquid immersion. Immersible only to transition fitting.

**OL-710-PP** Tubular with Fitting  
Rugged stainless steel probe with pipe fitting. Suitable for use in pipes or closed vessels.



\*Add suffix "-V" for vinyl tipped version

\*\*For economical plastic version of OL-705-PP, order Model No. OL-706-PP, \$68.

# Thermistor Probes

## For Use with Heavy Duty HDX Handle

THX-700 probes are designed to work with the heavy duty HDX handle. Each probe has a 3-prong OTP-copper connector termination and precision 44018 linear thermistor element, rated up to 100°C (212°F), which will work with all readout instruments designed for Series 700 probes, please see Sections L and M.

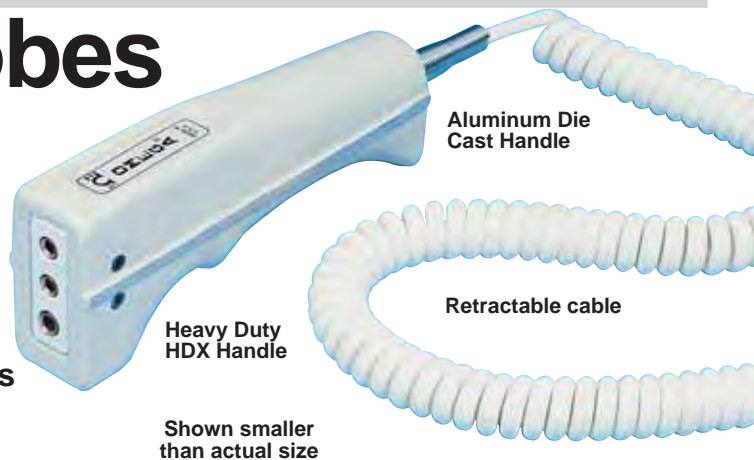
#### Quick Disconnect

The General Purpose Probe is for general purpose gas and liquid immersion measurements. Made from a rugged 3.1 mm (1/8") O.D. 304 stainless steel sheath, 300 mm (12") long, it will adapt to most process applications.

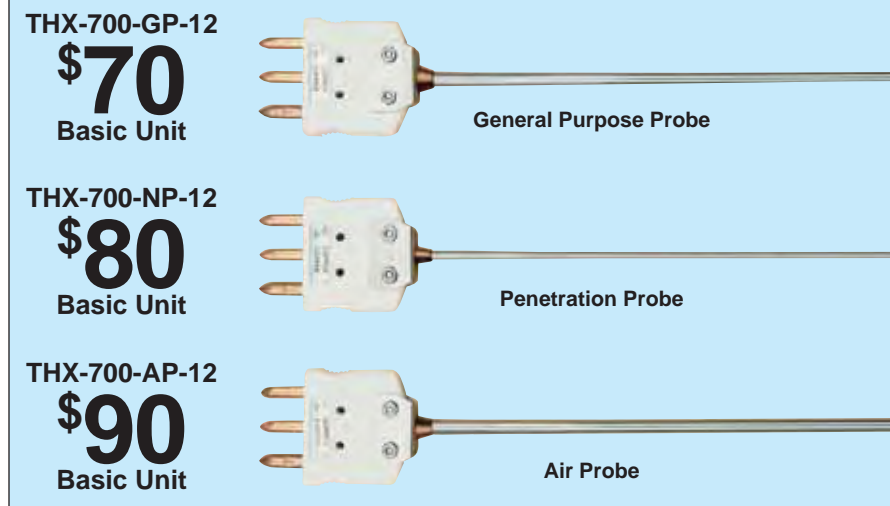
The Penetration Probe easily pierces soft and semi-frozen material as well as soil and sand. Made from a rugged 3.1 mm (1/8") O.D. 304 stainless steel sheath, 300 mm (12") long.

The Air Probe is for HVAC applications. The small diameter sheath and radiation hood easily fit into duct-work, grilles, and vents. The probe will work with the OMEGA® HDX handle or can be permanently mounted using OMEGALOK® compression fittings.

Model  
HDX-OTP Series  
Handle  
**\$37<sup>50</sup>**



**ALL MODELS AVAILABLE FOR FAST DELIVERY!**



**CUSTOM ASSEMBLIES AVAILABLE!**

Series 700 probes are available with other elements for different ranges and in other lengths and configurations. See Section I and contact Custom Engineering for a quotation.


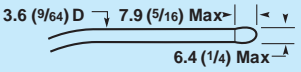
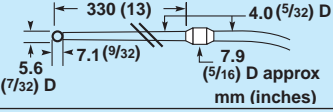
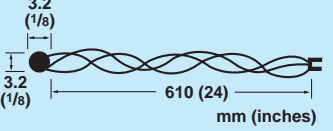
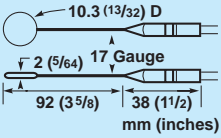
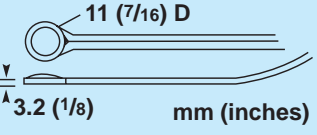
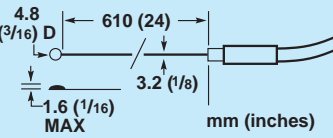
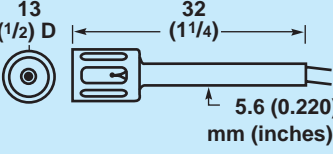
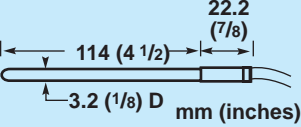
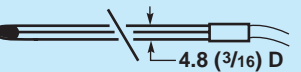
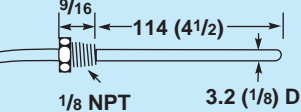
# Linear Response Probes Series 700

Series 700 Temperature Probes use the 44018 thermistor composite as the temperature sensor. On special order, probes can also be built with 44019 thermistor composite. The purpose of the Series 700

Probes is to provide a complete probe assembly for use with the circuits accepting the 44018 or 44019A thermistor composite.



**MOST POPULAR MODELS HIGHLIGHTED!**

| To Order (Specify Model Number)   |              |   |             |
|---|--------------|---|-------------|
| Configuration   | Model Number | Description   | Price       |
|    | OL-701       | <b>General Purpose.</b> Used for short-term water and sub-soil readings. Most rugged. probe. Waterproof construction.   | <b>\$47</b> |
|    | OL-701-V     | Water resistant, soft, flexible, vinyl tipped version of above model.   |             |
|    | OL-702       | <b>Small Flexible.</b> Vinyl sheath and tip. Cuvette temperatures. General purpose measurement.   | <b>127</b>  |
|    | OL-731       | <b>General Purpose.</b> Non-immersible, epoxy tipped probe. Can be plotted in place. Probe is suitable for temperature measurement on surfaces.                                   | <b>107</b>  |
|    | OL-708       | <b>"Banjo" Surface Temperature.</b> Water bath, air surfaces temperatures. Stainless steel.   | <b>160</b>  |
|   | OL-709       | <b>Attachable Surface Temperature.</b> Stainless steel cup, epoxy backed. Easy to tape on flat surfaces. Good for heat loss or compression efficiency study of piping.            | <b>56</b>   |
|  | OL-729       | <b>Small Surface Temperature.</b> Cuvette, water, bath, leaf and other surfaces. 610 mm (24") PFA-covered flexible wire. Stainless steel disc with epoxy back.                    | <b>137</b>  |
|  | OL-705       | <b>Air Temperature.</b> Stainless steel probe suitable for test rooms, incubators, remote air readings, monitoring of gas streams. etc. OL-706 has an economical plastic housing. | <b>66</b>   |
|   | OL-706       |   | <b>61</b>   |
|  | OL-703       | <b>Tubular.</b> Stainless steel probe for rugged duty. Often used for liquid immersion. Probe is immersible only to cap.  | <b>63</b>   |
|  | OL-704       | <b>Tubular-Glass.</b> Chemically inert for liquid immersion use. Thermometric titration. Freezing point determination. Pyrex, 127 mm (5") long.                                   | <b>141</b>  |
|  | OL-710       | <b>Tubular With Fitting.</b> Rugged, stainless steel probe with pipe fitting. Suitable for taking readings in pipes or inside closed vessels.                                     | <b>68</b>   |

700 Series Probes are compatible with OMEGA's, 400 THC and THF Digital Thermometers (please see Section M). To order probes with phone plug termination add "-PP" as a suffix to model number and add \$7 to price. 3 m (10') extension cable with phone plug connectors, model **ON-EXT-10**, \$18.

# omega.co.uk®

Your One-Stop Source for Process Measurement and Control!

Freephone 0800 488 488 | International +44(0) 161 777 6622 | Fax +44(0) 161 777 6622 | Sales@omega.co.uk

**www.omega.co.uk**



#### UNITED STATES

[www.omega.com](http://www.omega.com)

1-800-TC-OMEGA  
Stamford, CT.

#### CANADA

[www.omega.ca](http://www.omega.ca)

Laval(Quebec)  
1-800-TC-OMEGA

#### GERMANY

[www.omega.de](http://www.omega.de)

Deckenpfronn, Germany  
0800-8266342

#### UNITED KINGDOM

[www.omega.co.uk](http://www.omega.co.uk)

Manchester, England  
0800-488-488  
+44-(0)161-777-6611

#### FRANCE

[www.omega.fr](http://www.omega.fr)

0800-466-342

#### BENELUX

[www.omega.nl](http://www.omega.nl)

0800-099-33-44



## More than 100,000 Products Available!

### • Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders, Relative Humidity Measurement Instruments, PT100 Probes, PT100 Elements, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples, Thermowells and Head and Well Assemblies, Transmitters, Thermocouple Wire, RTD Probes

### • Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

### • pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

### • Data Acquisition

Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers, Plug-in Cards, Signal Conditioners, USB, RS232, RS485, Ethernet and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

### • Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Pressure Transmitters, Strain Gauges, Torque Transducers, Valves

### • Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters