



## Thermistor Temperature Probes Model 7021-GS-TP Series

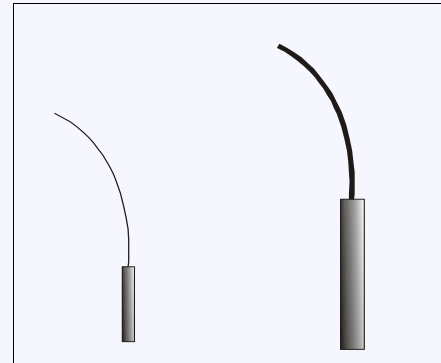
### FEATURES

- Low cost
- High accuracy
- Stainless steel or PVC housing
- Waterproof construction
- Matched, interchangeable thermistors

### Description

Geosystems Thermistor Probes are designed to provide accurate, long term temperature measurements under adverse field conditions. The probes incorporate matched, negative temperature coefficient type thermistors, encapsulated in stainless steel housings with specified cable type attached.

As the thermistors are interchangeable and curve matched, it is not necessary to calibrate them individually.



### Manufacture

Thermistors are fitted with stainless steel or PVC housings which are epoxy encapsulated for waterproofing and to provide a secure anchorage for the cable. The stainless steel or PVC housing provides an efficient thermal conductor for the thermistor as well as mechanical protection during transportation and installation. Probes are normally supplied with a 500 mm length of either light duty or direct burial cable attached. Cables of any length may be specified, and other special cable types can be supplied if required. Thermistor strings involving a number of thermistors located along a multi-core cable are available to order.

### Readouts

Temperature measurements are made using a resistance readout unit (Digital Voltmeter in association with a Geokon temperature chart or a supplied formula for greater accuracy) or most vibrating wire readout units (Geokon-USA, Geomonitor-Australia). Alternatively, dataloggers can be used for automatic monitoring and subsequent data download to a portable computer.

### Specifications

|                        |  |
|------------------------|--|
| <b>Thermistor type</b> | YSI 44005  |
| <b>Tolerance</b>       | ±0.2°C (-30°C to +60°C)<br>(Inter-changeability)   |
| <b>Temp. range</b>     | -80°C to +150°C<br>(operating)   |
| <b>Stability</b>       | 0.2°C (10 months at 100°C)   |
| <b>Resistance</b>      | 3000 ohms at 25°C  |
| <b>Dimensions</b>      | TP01 – 6 mm dia x 50 mm<br>TP02 – 13 mm dia x 100 mm   |
| <b>Standard Cable</b>  | TP01 – 4 mm dia, 2 core (7/0.20), polypropylene insulation, aluminium shield, drain wire.<br>TP02 – 8-10 mm dia, 2 core (9/0.20), polyurethane insulation, direct burial, copper wire braid shield |
| <b>Cable Lengths</b>   | 500 mm (or as required)  |

### Ordering Information

- Probe type
- Cable Length
- Readout unit or datalogger

Due to on-going design improvements and reviews, we reserve the right to amend product and specifications without prior notice

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### FOR FURTHER INFORMATION

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