

## Thermistor Strings

### Description

RST Instruments manufactures thermistor string assemblies that are environmentally hardened to provide accurate and reliable long-term measurements under demanding geotechnical conditions. The strings incorporate interchangeable, curve tracking, negative temperature coefficient (NTC) thermistors. As the thermistors are curve matched to desired temperature tolerance over selected temperature ranges, this permits the use of multiple sensors with a single readout or data logger, eliminating costly calibration procedures.

RST thermistor strings are custom manufactured to user specifications: cable length, thermistor number and location on the string. Resistance to the ingress of water is insured by a triple encapsulation procedure. Standard cable employed is a heavy duty, direct burial rated 22 gauge water blocked instrumentation cable.

RST's DT Series and RSTAR Affinity Data Loggers or flexDAQ Data Loggers can be used to monitor the string.

### THERMISTOR STRINGS SPECIFICATIONS

ITEM	SPECIFICATION
Interchangeability Tolerance	$\pm 0.1^{\circ}\text{C}$
Interchangeability Temp. Range	$0^{\circ}\text{C}$ to $+75^{\circ}\text{C}$
Operating Temp. Range	$-80^{\circ}\text{C}$ to $+75^{\circ}\text{C}$
Stability	$0.01^{\circ}\text{C}$ or better /100 months at $0^{\circ}\text{C}$
Resistance at $25^{\circ}\text{C}$	3k ohms

### SPECIFICATIONS