Temperature
Calibrator
Pressure
Humidity
Recorder & Dataloggers
Air Flow
Level & Flow
Portable Instruments
EX Proof / IS
Environment
Aerospace

Isotech Precision Thermometer – milliK

ISOTECH

Features

- High Accuracy ±0.003°C
- SPRTs, PRTs, Thermistor Thermcouples and 4 to 20mA, Process Inputs
- Expand to 33 Channels
- Controls Isotech Calibration Baths
- Galvanically Isolated Inputs
- Can store a lifetime of logged data
- Eliminates Thermal EMF Errors
- Lead Wire Correction
- Connectivity - Two Serial Interfaces, Ethernet and USB Host

SPECIFICATIONS

Accuracy	Intital	Over 1 year
SPRTs / PRTs:	5ppm	7ppm
Thermistors:	50ppm	150ppm
Thermocouples:	2µV	4µV
4-20 mA	0.01%	0.02%

Temperature Accuracy	Intital	Over 1 year
SPRTs / PRTs (at 0°C):	3mK	4mK
(over full range):	5mK	7mK
Thermistors:	50ppm	150ppm
Thermocouples:		
Type B:	±0.23°C	±0.46°C
Type E:	±0.03°C	±0.06°C
Type J:	±0.04°C	±0.07°C
Type K:	±0.05°C	±0.10°C
Type L:	±0.04°C	±0.07°C
Type N:	±0.06°C	±0.12°C
Type R:	±0.17°C	±0.34°C
Type S:	±0.19°C	±0.38°C
Type T:	±0.05°C	±0.09°C
Au-Pt:	±0.12°C	±0.23°C

Resolution	Resistance(PRTs):	0.00001Ω
	SPRTs / PRTs:	0.001Ω
	Thermistors:	0.00001mV
	SPRTs / PRTs:	0.001mA
	Thermistors:	0.0001°C

Input Connectors	SPRTs/PRTs:	LemoEPG. 1B.306 HLN 6-pin gold plated contacts
	Thermocouples:	Miniture Thermocouple socket (ASTM E 1684-05)
	4-20mA:	4mm sockets

Input Channels	3	
Channels 1+2	SPRTs, PRTs, Thermistor and Thermocouples	
Channels 3	Process 4 - 20mA Isolated 24VDC Power Supply Included	
Ranges	SPRTs:	0-115Ω
	PRTs:	0-460Ω
	Thermistors:	0-500kΩ
	Thermocouples:	±115mV
	4-20 mA:	0-30mA
Interfaces	10/100MBit Ethernet (RJ45 socket) USB (2.0) host 2 x RS232 (9-pin D-type plug, 9600 Baud)	
Display	89mm / 3.5'' QVGA (320X240) colour TFT LCD with LED backlight	
Display Units	°C, °F, K, Ω, mV, mA	
Measurement Time	950mS	
Statics	In Addition to Instantaneous Display user can select mean of 2 -100 measurements with Standard Deviation	
Cable Length	Limited to 10Ω per core and 10nF shunt capacitance (equivalent to 100m of typical 4-core screened PTFE cable)	
Logging	Limited to 10Ω per core and 10nF shunt capacitance (equivalent to 100m of typical 4-core screened PTFE cable)	
Recommended Probes	Isotech Semi Standard PRTs Isotech Model 909 SPRT	

MODEL	DESCRIPTION
milliK	Isotech Precision Thermometer Optional Carrying Case 931-22-102