

3000 SERIES HAND HELD THERMOMETERS

The Digatron 3000 Series is the latest in a range of portable thermometers and recorders developed over 10 years design and manufacturing experience. The instruments are a unique blend of proven accuracy and the latest high performance low power technology, packaged in an extremely robust, water proof, moulded case.

The range includes instruments for use with thermocouple or Pt100 sensors and models are available giving readings in Centigrade or Fahrenheit with a resolution of 0.1 or 1 degree. Model 3202 accepts two probes and the user can choose whether to monitor a single point, or display the difference between the two probes. Instruments are available covering temperatures from -150°C to +1200°C with an accuracy of 0.2% or better. A wide range of standard probes is available to meet virtually all requirements and all type K thermocouple probes are interchangeable as are all Pt100 sensors.

Despite their sophisticated features all the instruments are easy to use and the display clearly indicates both the temperature and the operating mode.

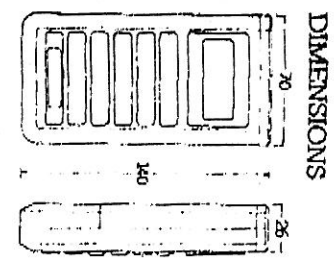
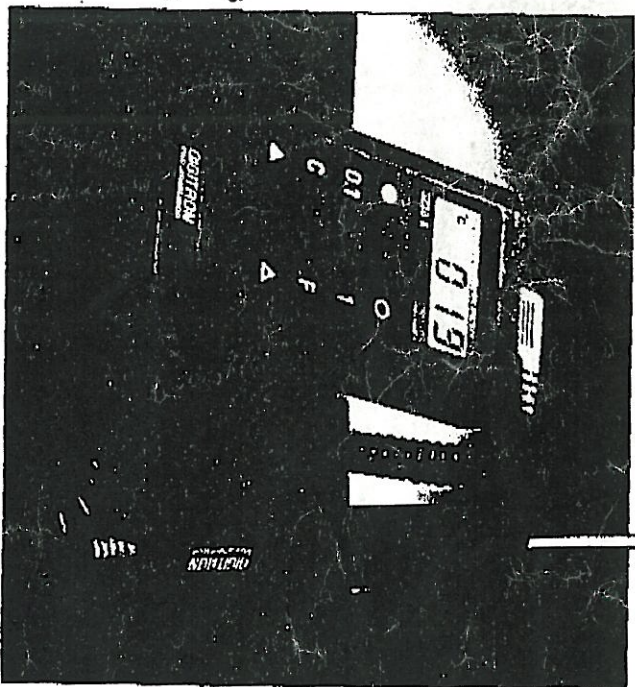
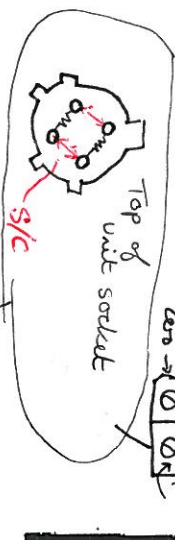
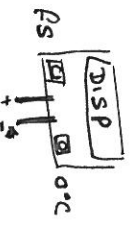
The ergonomically designed case provides simple one handed operation of all function switches, allowing the user to concentrate on correct positioning of the probe.

The electronics are enclosed in a single component moulded case with an extra cap. This provides unsurpassed strength and allows the instruments to meet the stringent environmental requirements of IP64. For normal extra cost the instrument can be supplied conforming to IP67 requirements which includes operation under 1 metre of water. Thus the instruments can operate in 100% humidity and are designed to minimize the effects of thermal shock encountered in every day use. For use in poor ambient lighting a back lit display is fitted as a standard feature.

As with an instrument of this caliber, the electronics are assembled by a computer controlled labor under strict quality control conditions. All instruments are subjected to detailed inspection and undergo a rigorous testing programme before being calibrated on equipment traceable to National Standards.

- Resolution of 0.1 or 1 degree
- Temperatures from -150°C to +1200°C with accuracy of 0.2% or better.
- Sample one handed operation.
- Unsurpassed strength.
- Environmental requirements of IP64.
- Instrument can be supplied conforming to IP67.
- A back lit display.
- All instruments undergo rigorous testing.
- Calibrated on equipment traceable to National Standards.

Simply the 3000 Series are the best thermometers to withstand the harshest environments and provide years of trouble free service under all conditions. Why settle for less?



DIMENSIONS
70
26
140
As indicated in mm.

DIGITRON
Instrumentation

SPECIFICATION

Model 3200	Model 3202	Model 3204	Model 3208	Model 3218	Model 3228
TYPE K COMPATIBLE Miniature Thermocouple Prog BS4937 Type K (NiCr/NiAl)	2 x TYPE K COMPATIBLE Miniature Thermocouple Prog BS4937 Type K (NiCr/NiAl)	PT100/Ω Platinum resistor to BS1904 DMS4750 4 wire system 300 hours typical	TYPE K COMPATIBLE Miniature Thermocouple Prog BS4937 Type K (NiCr/NiAl)	TYPE K COMPATIBLE Miniature Thermocouple Prog BS4937 Type K (NiCr/NiAl)	TYPE K COMPATIBLE Miniature Thermocouple Prog BS4937 Type K (NiCr/NiAl)
Operating Temperature (Ambient) 0°C - 50°C	0°C - 50°C	0°C - 50°C	0°C - 50°C	0°C - 50°C	0°C - 50°C
Display 0.5" custom LCD with automatic legend display	0.5" custom LCD with automatic legend display	0.5" custom LCD with automatic legend display	0.5" custom LCD with automatic legend display	0.5" custom LCD with automatic legend display	0.5" custom LCD with automatic legend display
Back Light Standard by holding \ominus Button down	Standard by holding \ominus Button down	Standard by holding \ominus Button down	Standard by holding \ominus Button down	Standard by holding \ominus Button down	Standard by holding \ominus Button down
Low Battery Check LOW BATT Shows in Display	LOW BATT Shows in Display	LOW BATT Shows in Display	LOW BATT Shows in Display	LOW BATT Shows in Display	LOW BATT Shows in Display
Weight 250 gms	250 gms	250 gms	250 gms	250 gms	250 gms
Environmental Specifications BS5490 1977 IP64 Standard IP67 available at extra cost	BS5490 1977 IP64 Standard IP67 available at extra cost	BS5490 1977 IP64 Standard IP67 available at extra cost	BS5490 1977 IP64 Standard IP67 available at extra cost	BS5490 1977 IP64 Standard IP67 available at extra cost	BS5490 1977 IP64 Standard IP67 available at extra cost
Sensor Open Circuit None	1 Displayed	1 Displayed	1 Displayed	1 Displayed	1 Displayed
Range Selection None	1C or 0.1C Thermocouple A or A-B	1C or 0.1C	1C or 0.1C	1C or 0.1C	1C or 0.1C
Range -50°C to +750°C	Low -35.0°C to +199.9°C High -15.0°C to +800°C	Low -50.0°C to +199.9°C High -5.0°C to +850°C	Low -50.0°C to +199.9°C High -5.0°C to +850°C	Low -50.0°C to +199.9°C High -5.0°C to +850°C	Low -50.0°C to +199.9°C High -5.0°C to +850°C
Resolution 1C	1C or 0.1C (CLASS T)	1C or 0.1C	1C or 0.1C	1C or 0.1C	1C or 0.1C
Accuracy $\pm 0.2\% rd \pm 1C$	High $\pm 0.2\% rd \pm 1C$ Low $\pm 0.2\% rd \pm 0.5C$	High $\pm 0.2\% rd \pm 1C$ Low $\pm 0.2\% rd \pm 0.5C$	High $\pm 0.2\% rd \pm 1C$ Low $\pm 0.2\% rd \pm 0.5C$	High $\pm 0.2\% rd \pm 1C$ Low $\pm 0.2\% rd \pm 0.5C$	High $\pm 0.2\% rd \pm 1C$ Low $\pm 0.2\% rd \pm 0.5C$
Other Features C Shows on Display	Differential or Single readings. Selectable by pressing A for normal operation A-B for differential 970	C Shows on Display 1.0 F	C Shows on Display 1.0 F	C or F Shows On display automatically	C or F Shows On display automatically
PLEASE NOTE: All quoted accuracies relate to instruments only and do not account for sensor errors. To obtain stated accuracy of differential readings both individual probe readings should be within the range -25 to +300°C.	(PURE Accuracy $\pm 0.15\% C + 0.2\% rd$) C Shows on Display 970	(CLASS T)	(CLASS T)	(CLASS T)	(CLASS T)

0.1 **970** (A shows in display)
Press A for normal operation