

DT173/DT175

Digital thermometers



Key features

- Auto ranging -200°C to 1372°C
- Resolution to 0.1°C
- MIN/MAX/AVG recording
- Relative & Hold functions
- Large character backlit display
- Tough holster with built-in stand
- Includes K-type thermocouple

DT175 Additional features

- Dual input
- Differential measurements for heating or cooling efficiency
- Includes two K-type thermocouples

	DT173	DT175
Single input	✓	
Dual input		✓
Differential measurements		✓
K-Type thermocouples included	x1	x2
Min/Max	✓	✓
Display °C or °F	✓	✓

The DT173/DT175 are high performance single and dual input K Type digital thermometers for measuring input and output temperatures of systems and equipment with a range of -200°C to 1372°C.

The compact thermometer is supplied in a tough holster and has large digits and a back light for easy viewing in all environments. There is a fold away built in stand for optimum viewing angle.

The thermometers are supplied with bead thermocouples and are compatible with a wide range of Martindale K Type probes including air probes, penetration probes and clamp and surface probes.

Readings can be displayed in either Centigrade or Fahrenheit and the thermometer has an adjustable offset to optimise thermocouple performance over the desired temperature range. There is a MIN/MAX/AVG mode for recording extremes of readings and for recording over longer periods of time.

FUNCTION	DT173	DT175
TEMPERATURE		
Thermometer measurement range	-200°C to 1372°C, -328°F to 1999°F	
Resolution	0.1° to 199.9°C/°F, 1° ≥ 200°C/°F	
Accuracy	-200°C to -60°C, ± (0.1% of rdg + 2°C) -60°C to 1372°C, ± (0.1% of rdg + 1°C) -328°F to -76°F, ± (0.1% of rdg + 4°F) -76°F to 1999°F, ± (0.1% of rdg + 2°F)	
Measurement rate	2.5/second	
Polarity	Automatic, positive implied, '-' for negative polarity indication	
Supplied thermocouple probe	1 x 1.2M Type K TT1P	2 x 1.2M Type K TT1P
ENVIRONMENTAL		
Temperature & humidity (operating)	0°C to 50°C, <70% R.H.	
Temperature & humidity (storage)	-20°C to 60°C, 0 to 80% R.H., batteries removed	
Altitude	up to 2000m	
Pollution degree	2	
GENERAL		
Power	4 x 1.5V, AAA alkaline batteries (IEC LR03, NEDA 24A)	
Battery life	200 hours	
Input connector	Standard flat blades spaced 7.9mm	
Input protection	24V DC or AC rms maximum input	
Dimensions	160(L) x 83(W) x 38(D) mm	
Weight	240g approx. incl batteries	
EMC		
Conforms to	BS EN 31326-1	

TT1P PROBE	
Construction	1.2M Type K thermocouple bead probe (PTFE insulated)
Maximum insulation temperature	260°C (500°F)
Probe accuracy	± 2.2°C or ± 0.75% of rdg

Included

DT173 TT1P PTFE bead thermocouple, 4 x AAA alkaline batteries and instruction manual
DT175 2 x TT1P PTFE bead thermocouple, 4 x AAA alkaline batteries and instruction manual

Related products

TT1KF Fibreglass bead thermocouple	TT9K Needle probe
TT4K High temperature probe (1100°C)	TT10K Pipe clamp
TT5K Air probe	TT12K Velcro probe
TT6K Penetration probe	MG3 Magnetic hanger
TT8K Surface probe	DTL84 Four input datalogger thermometer

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Ver. A2.0

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