

31000 Series

DIAL THERMOMETERS

- 100mm (4") Dial.
- Surface mounting.
- Ranges -40°C to $+40^{\circ}\text{C}$ and -30°C to $+50^{\circ}\text{C}$.
- Remote sensing up to 15m (50ft).
- Polished Stainless Steel Bezels.
- Non-Electric.
- Clear Analogue readout.
- Dual temperature ranges $^{\circ}\text{C}$ and $^{\circ}\text{F}$.

Application

Teddington Controls Dial Thermometers are ideally suited for use on cold rooms, display cases, and refrigerated transport or anywhere that accurate remote sensing of temperature is required.

Physical Description

The Teddington Controls thermometer comprises a precision gas pressure operated instrument of high quality presentation that is unaffected by "Dirty" mains or power failure. The thermometers can be supplied in various capillary lengths 1.5m to 15m (5ft to 50ft), and longer capillaries can be provided to special order. Special customers' logo's can be included on dials for quantity orders.



Operation

The Teddington 31000 Series Dial Thermometers are a range of analogue, self-powered, display thermometers. They use a Bourden tube powered by gas pressure. The sensor is a stainless steel phial tube that may be located at some distance from the display head.

Installation Considerations.

Thermometers can be supplied in various capillary lengths, for longer capillaries larger sensors are necessary to ensure correct operation over a full range of temperatures as listed in table 1.

Technical Specification

Materials

Bezel:	Polished Stainless Steel.
Dial:	Aluminium.
Window:	Glass.
Capillary:	Nickel Plated Copper.
Armour:	Stainless Steel.
Sensor phial:	Stainless Steel.
Bourden tube:	Phosphor Bronze.

Sensor Dimensions and Capillary Lengths

Capillary length		Sensor dimensions mm			
		Length		Diameter	
m.	ft.	mm.	In.	mm.	In.
1.5 & 3	5 & 10	83	3.25	14	0.562
4.5 & 10	15 & 33	114	4.5	14	0.562
15	50	171	6.75	14	0.562

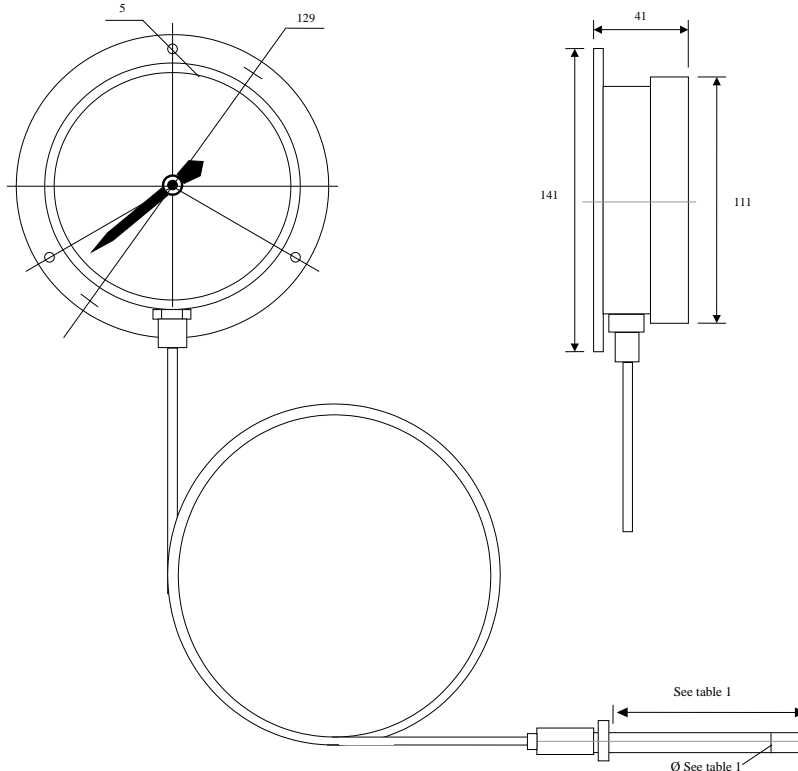
Ordering Information

Part #	Range	Capillary Length (m)
31001	-40°C to +40°C -40°F to +100°F	1.5
31002		4.5
31008		7.5
31009		10
31003	-30°C to +50°C -20°F to +120°F	1.5
31004		3.0
31005		4.5
31006		10
31007		15

Accuracy

Within $\pm 1.5^{\circ}\text{C}$ at set point.

Outline Details



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