

Liquid Filled Dial Thermometer

Liquid filled system based on liquid (other than mercury) expansion principle is used for measuring temperature ranging from (-) 30°C to 250°C.

It has faster response and the same is available in rigid stem as well as capillary type for remote sensing. Every angle type can be offered in all SS construction. Generally used where mercury type thermometer is not used in industries such as Food, Pharmaceutical, etc. The main advantage is its minimum immersion length required for sensing (as low as 30mm suffices for proper sensing thereby making it ideal for installing in lower line sizes)



Features

- Rugged construction
- Rigid stem or capillary type
- Suitable for pharmaceutical, food, biotechnology industry.
- Protection class IP-67
- Accuracy $\pm 1\%$ FSD
- Minimum immersion length (as low as 30 mm suitable for lower line sizes possible)
- Case compensated system

Specifications

Ref. Standard	ASME B 40.200, EN 13190
System	Liquid filled, case compensated in accordance with SAMA Cl. I B
Dial	100 mm or 150 mm in aluminium, white background, black markings
Case	SS304 / SS316 with bayonet bezel
Protection	Weather proof to IP - 67 (IS/IEC : 60947 / IEC : 60529)
Window	Shatterproof glass
Pointer	Aluminium, black, micrometer adjustable
Stem	S304 or SS316 in 6 mm, 8 mm, 10 mm, 12 mm dia as standard (immersion length as small as 30 mm possible).
Capillary	SS Covered / SS Covered + PVC / SS Covered + SS armoured / SS Covered + SS Armoured +PVC (up to 5 Mtr.).
Connection	1/2" NPT (M) as standard in SS304 or SS316 three piece adjustable compression fitting.
Range	(-) 30°C to 250°C with a minimum span of 50°C
Accuracy	$\pm 1\%$ FSD
Over range	125% FSD
Reset	Micrometer Pointer
Optional	Silicone Oil Filled Case
Note	1) For minimum insertion length essential for proper sensing, contact our design department. 2) Three point calibration certificate accompanies each thermometer.



Ordering Information

LDT-R - Rigid Stem

LDT-C - Capillary Type

MODEL : LDT-R / LDT-C



MOUNTING

V Bottom Entry, Local Mounting
 C Back Entry, Local Mounting
 E Every Angle, Local Mounting
 S Bottom Entry, Surface Mounting
 P Back Entry, Panel Mounting
 Y Bottom Entry, 2" Pipe Mounting

DIAL

10 - 100 mm 15 - 150 mm

CASE

S4 SS304
 S6 SS316

STEM-OD

A 6 mm C 10 mm
 B 8 mm D 12 mm

STEM LENGTH

Specify in mm

STEM MATERIAL

S4 - SS304 S6 - SS316

CAPILLARY

TYPE	LENGTH
SC SS Covered	Specify in metre (Max upto 5 metre)
SP SS Covered + PVC	
SA SS Covered + SS Armoured	
SAP SS Covered + SS Armoured + PVC	
N Not Applicable for LDT-R type.	

OPTION

A Thermowell
 C Colour Band
 D Dual Scale
 L Nil
 S Silicone Oil Filled Case

UNIT

C Deg C F Deg F

RANGE **

(-) 30 to (+) 30	0 to 120
(-) 20 to (+) 40	0 to 160
0 to 50	0 to 200
0 to 80	0 to 250
0 to 100	

CONNECTION

SIZE	TYPE	MALE / FEMALE	METRIC THREADS
6 1/4"	NT NPT	M Male	18 M - M 18 x 1.5
10 3/8"	BP BSP	F Female	20 M - M 20 x 1.5
15 1/2"	BT BSPT		24 M - M 24 x 1.5
20 3/4"	PF PF		XX - Any other
25 1"	GS Gas NS NPS		

** Ranges mentioned are in °C. Equivalent unit in °F can be provided on request.

The recommendations made in this catalogue are to be used as intended guide. No guarantee of material can be undertaken since other factors may affect the performance. We reserve the right to change the specifications mentioned in this catalogue without any notice as improvements & development is a continuous process at "Pyrosales". Responsibility of typographical errors is specifically disclaimed.