

Indicating Temperature Switch



Indicating temperature switch combines indication with switching (in order to make or break the associated electrical circuit). Can be offered with contact assembly as well as microswitch (as a combination of switch and movement)

Features

- Combination of indication and switch
- Fast response
- Choice of contact assembly or microswitch
- Switching accuracy $\pm 2\%$ FSD
- High repeatability and low hysteresis
- Flameproof version available
- Case compensated system



Specifications

System	Gas (N ₂) filled case compensated in accordance with SAMA Cl. IIIB
Dial	100 mm / 150 mm in aluminium, white background, black marking
Case	SS304 / SS316 with bayonet bezel (Flameproof case in Al only)
Protection	Weatherproof to IP-67 (IS/IEC : 60947 / IEC : 60529) Flameproof to IIA IIB (Equivalent to NEC Cl. I Div 2 Gr. C&D) Flameproof to IIC (Equivalent to NEC Cl. Div 1 Gr. A&B)
Stem	SS304 or SS316, 6 mm, 8 mm, 10 mm, 12 mm dia as standard
Connection	1/2" NPT (M) adjustable three piece compression fitting as standard
Capillary	SS Covered / SS Covered + PVC / SS Covered + SS armoured / SS Covered + SS Armoured +PVC (up to 25 Mtr.).
Range	(-) 200 to 800°C (minimum span 80°C)
Accuracy	$\pm 1\%$ FSD for indication, $\pm 2\%$ FSD for switching
Over range	125% FSD
Contacts	1) SPST, single, normally open, closes on rise in temperature or vice versa, rated 30 VA @ 230V AC 2) SPST, two contacts, independently adjustable, one normally open other normally closed or both normally open or both normally closed, rated 30 VA @ 230 V AC 3) 1SPDT, single microswitch, adjustable over entire range, rated 5 amp @ 230 V AC (3A @ 28 VDC) 4) 2SPDT, double microswitch, adjustable over entire range, rated 5 amp @ 230 V AC (3A @ 28 VDC)
Accessory	Relay for the contact assembly to suit 5 amp @ 230 V AC, separately mounted.
Note	1) Flameproof version is offered with SPDT Microswitch in Die Cast Aluminium housing only. 2) Surface mounted flameproof housing is available with capillary. 3) For minimum insertion length essential for proper sensing, contact our design department. 4) Three point calibration certificate accompanies each thermometer. 5) For operating temp > 600°C; stem of SS310 / Inconel 600 shall be recommended.



Advantages of Microswitch Type Models: Microswitch is rated 5 amp @ 230 V AC (3A @ 28 VDC). No relay is required. Microswitch is imported from reputed international supplier as combination of movement and switch. Microswitch assembly gives better switching accuracy. Compact design.

Under Technical Collaboration with M/s. Gauges Bourdon, U.K.

Ordering Information

GDT-SW-R - Rigid Stem
GDT-SW-C - Capillary Type

MODEL : GDT-SW-R / GDT-SW-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
AL	Die Cast Al*

STEM-OD	
A 6 mm	C 10 mm
B 8 mm	D 12 mm

STEM LENGTH
Specify in mm

STEM MATERIAL	
S0 - SS310	S4 - SS304
S6 - SS316	I6 - Inconel 600

CAPILLARY	
TYPE	LENGTH
SC SS Covered	Specify in metre
SP SS Covered + PVC	
SA SS Covered + SS Armoured	
SAP SS Covered + SS Armoured + PVC	
N Not Applicable for GDT-SW-R type	

OPTION	
A	Thermowell
C	Colour Band
D	Dual Scale
E	1SPST
F	2SPST
G	1SPDT
H	2SPDT
R	Relay
FA	Flame Proof Case (IIA, IIB)
FC	Flame Proof Case (IIC)

UNIT	
C	Deg C
F	Deg F

RANGE **	
0 to 80	0 to 300
0 to 100	0 to 350
0 to 120	0 to 400
0 to 160	0 to 500
0 to 200	0 to 600
0 to 250	0 to 800

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		

* Die Cast Aluminium Case is available with Flameproof Version only.

** 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 "General". Responsibility of typographical errors is specifically disclaimed.