

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** : Mercury filled, Gas (N₂) filled case compensated in accordance with SAMA C1. V B/IIIB
- Dial** : 100 mm or 150 mm, white anodised, black markings
- Case** : SS304 / SS316 with bayonet bezel (Flameproof case in Al only)
- Protection** : Weatherproof to IP-67 (IS : 13947)
Flameproof to IIA IIB (Equivalent to NEC C1. I Div 2 Gr. C&D)
- Stem** : SS304 or SS316, 6 mm, 8 mm, 10 mm, 12 mm
- Connection** : 1/2" NPT (M) adjustable three piece compression fitting as standard
- Capillary** : SS covered or SS armoured or SS covered with PVC up to 15 M.
- Range** : (-) 40°C to 600°C with a minimum span 50°C for mercury filled temperature switch / (-) 100 to 600°C for gas filled temperature switch (minimum span 80°C)
- Accuracy** : $\pm 1\%$ FSD for indication, $\pm 2\%$ FSD for switching
- Overrange** : 125% FSD as standard (130% FSD on request upto 500°C)
- Contacts** : 1) 1 SPST, single, normally open, closed on rise in temperature or vice versa, rated 30 VA @ 230V AC
2) 2 SPST, two contacts, independently adjustable, one normally open other normally closed or both normally open or both normally closed, rated 30VA @ 230 V AC
3) 1SPDT, single microswitch, adjustable over entire range, rated 5amp @ 230 V AC (3A @ 28 VDC)
4) 2 SPDT, 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) SPDT microswitch is offered in flameproof housing, 100mm dial and diecast Al case.
2) Surface mounted flameproof housing is available with capillary.
3) Flameproof (conforming to IIC) version also available with microswitch.
4) 2 SPDT only in 150 mm dial size.



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.

Note : For minimum immersion length essential for proper sensing, contact our design department.

In-House Testing facilities for Temperature Gauges

For the manufacturing & testing of temperature gauges, we strictly follow EN : 13190-2001 and DIN 16203, 16204, 16205 and 16206 standard. Following tests are carried out to ensure the quality of temperature gauges. We have facilities to carry out following tests in-house at our manufacturing plant.

1. Accuracy test
2. Overrange test
3. Hysteresis test
4. Response time test
5. Repeatability test
6. Vibration test (rattling test)
7. Load test
8. Mounting position test
9. Ambient temperature compensation test (Case compensation test)
10. Capillary compensation test
11. Hermetical sealing test (for Bimetal temperature gauges)
12. Thermal stability test
13. End nipple test (for Bimetal temperature gauges)
14. Hose down test (water spray test)
15. Switching accuracy test (for contact assembly & microswitch type models)
16. High voltage test (for contact assembly & microswitch type models)
17. Insulation test
18. Contact resistance test
19. Altitude test
20. Dial printing stability test
21. Life test for SPDT movement
22. Cyclic test
23. Friction test

