## Series 100T Temperature Switch/Internal Adjustment

Direct mount adjustable temperature switch for use in hazardous areas. Utilizes efficient Nega-Rate ${ }^{\circledR}$ Belleville spring mechanism and saturated vapor sensor for quick response and narrow deadband.

## Operating Temperature Data

| Adjustable Range Number | Adjustable Set Point Range |  | Deadband $^{\dagger}$ (approx) Bottom/Top |  | Proof Temperature |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Increasing ${ }^{\circ} \mathrm{F}$ | Decreasing ${ }^{\circ} \mathrm{F}$ | ${ }^{\circ} \mathrm{F}$ | ${ }^{\circ} \mathrm{C}$ | ${ }^{\circ} \mathrm{F}$ | ${ }^{\circ} \mathrm{C}$ |
| B | -50 to +65 | -69 to +62 | 19/3 | $11 / 2$ | 250 | 121 |
| D | +30 to +175 | +7 to +172 | 23/3 | 13/2 | 400 | 204 |
| F | +95 to +250 | +70 to +247 | 25/3 | $14 / 2$ | 450 | 232 |
| H | +175 to +360 | +145 to +355 | 30/5 | $17 / 3$ | 500 | 260 |
| J | +335 to +500 | +305 to +495 | 30/5 | 17/3 | 600 | 315 |

${ }^{\dagger}$ Deadband decreases as the adjustable set point is increased. For narrow deadband select set point in upper half of adjustable range.

## Standard Specifications

## Electrical

Snap action electrical switch assemblies, Part Numbers 057-0770 \& 057-0772 (Form C) and 057-0771 \& 057-0773 (Form CC), are listed by Underwriters' Laboratories, Inc.,
CSA International and NCC
(INMETRO). See the miscellaneous option N for additional listings.

## Electrical Connection

1/2 NPT male conduit connection
with PVC insulated 18 AWG,
18" long leads
Pressure Connection
1/2 NPT Male
Direct mount
Temperature Range
Ambient: $-40^{\circ} \mathrm{F}$ to $+180^{\circ} \mathrm{F}$
$\left(-40^{\circ} \mathrm{C}\right.$ to $\left.+82^{\circ} \mathrm{C}\right)$
See Electrical Assembly
specification sheet for Temperature
Class Ratings.
System Pressure
1500 psig maximum

## Proof Pressure

2250 psig

## Adjustment

Concealed wrench flat adjustment
with range scale
Shipping Weight
Approximately 3 pounds


Order Miscellaneous Option "D"

## Ordering Sequence - Select desired option for each category

## OPTIONS

## Wetted Material

3 Steel port with stainless steel probe, Viton seal
NOTE: Range "J" uses Teflon seal

## Adjustable Range

| B | $-69^{\circ} \mathrm{F} \mathrm{dec}$. to | c. | $\left(-56^{\circ} \mathrm{C}\right.$ dec. to 1 |
| :---: | :---: | :---: | :---: |
| D | $+7^{\circ} \mathrm{F} \mathrm{dec}$. . to | $+175^{\circ} \mathrm{F}$ inc. | (-14* ${ }^{\circ} \mathrm{C}$ dec. to |
| F | $+70^{\circ} \mathrm{F}$ dec. to | $+250^{\circ} \mathrm{F}$ inc. | $\left(21^{\circ} \mathrm{C}\right.$ dec. to $121^{\circ} \mathrm{C}$ |
| H | $+145^{\circ} \mathrm{F}$ dec. to | $+360^{\circ} \mathrm{F}$ inc. | $\left(63^{\circ} \mathrm{C} \mathrm{dec}\right.$. to $182^{\circ} \mathrm{C}$ |
|  | $+305^{\circ} \mathrm{F} \mathrm{dec}$. | $+500{ }^{\circ} \mathrm{F}$ | $\left(152^{\circ} \mathrm{C}\right.$ dec. to $260^{\circ}$ |

## Electrical Form

C $11 \mathrm{amp}, 1 / 4 \mathrm{hp}$ at 125 or 250 VAC; 5 amp resistive, 3 amp inductive at 28 VDC; .5 amp resistive at 125 VDC
CC $11 \mathrm{amp}, 1 / 4 \mathrm{hp}$ at 125 or 250 VAC ; 5 amp resistive, 3 amp inductive at 28 VDC ; .5 amp resistive at 125 VDC

Enclosure
6 Includes an explosion proof, hermetically-sealed electrical assembly. EX d IIC.
Division 1 and 2, Class I, Groups A, B, C, and D; Class II, Groups E, F, and G. NEMA 4X, 7, and 9; IP66. Leads are factory sealed and Pressure Switches are Dual Seal Certified.

## Miscellaneous

A Epoxy paint exterior - extra protection for severe environments
D SIL 3 approval and marking, per IEC61508 (includes FMEA report)
I $3 / 4$ NPT conduit box with terminal strip (Groups C \& D only, not available with N option)
J Annealed stainless steel port screws for $\mathrm{H}_{2} \mathrm{~S}$ environments
M Gold electrical contacts for extremely low current applications (1 Amp at $125 \mathrm{VAC} ; 1$ Amp Res, 0.5 Amp Ind. at 28 VDC) - (Not with Z Form)
N ATEX and IECEx with CE Mark
R 72" Electrical free leads
U M20 $\times 1.5$ Electrical Conduit Adapter
W Stainless steel screws - exterior

## Special (Consult representative or factory)

- Thermowells
- Non-catalog adjustable range and/or set point and deadband


## Ordering Procedure

- When factory presetting is desired, stipulate set point, increasing or decreasing
- Insert available option letter designation as required



## Envelope Dimensions



Electrical Form


## Basic Principles of Design



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