## Series 100T Temperature Switch/Internal Adjustment

Direct mount adjustable temperature switch with efficient Nega-Rate ${ }^{\circledR}$ Belleville spring mechanism and saturated vapor sensor for quick response.

## Operating Temperature Data

| Adjustable Range Number | Adjustable Set Point Range |  | Deadband ${ }^{\dagger}$ (approx) Bottom/Top |  | Proof Temperature |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Increasing ${ }^{\circ} \mathrm{F}$ | Decreasing ${ }^{\circ} \mathrm{F}$ | of | ${ }^{\circ} \mathrm{C}$ | -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
recognized by Underwriters'
Laboratories, Inc. and CSA
International
Electrical Connection
1/2 NPT female conduit connection with terminal block
Process 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 $\left.+82^{\circ} \mathrm{C}\right)$
System Pressure
1500 psig maximum
Proof Pressure
2250 psig
Adjustment
Concealed wrench flat adjustment
with range scale
Shipping Weight
Approximately 3 pounds


## 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

| $\mathbf{B}$ | $-69^{\circ} \mathrm{F}$ dec. to | $+65^{\circ} \mathrm{F}$ inc. | $\left(-56^{\circ} \mathrm{C}\right.$ dec. to | $18^{\circ} \mathrm{C}$ inc. $)$ |
| :--- | ---: | :--- | :--- | :--- |
| $\mathbf{D}$ | $+7{ }^{\circ} \mathrm{F}$ dec. to | $+175^{\circ} \mathrm{F}$ inc. | $\left(-14^{\circ} \mathrm{C}\right.$ dec. to | $79^{\circ} \mathrm{C}$ inc. $)$ |
| $\mathbf{F}$ | $+70^{\circ} \mathrm{F}$ dec. to | $+250^{\circ} \mathrm{F}$ inc. | $\left(21^{\circ} \mathrm{C}\right.$ dec. to $121^{\circ} \mathrm{C}$ inc. $)$ |  |
| $\mathbf{F}$ | $+145^{\circ} \mathrm{F}$ dec. to | $+360^{\circ} \mathrm{F}$ inc. | $\left(63^{\circ} \mathrm{C}\right.$ dec. to $182^{\circ} \mathrm{C}$ inc. $)$ |  |
| $\mathbf{H}$ | $+305^{\circ} \mathrm{F}$ dec. to | $+500^{\circ} \mathrm{F}$ inc. | $\left(152^{\circ} \mathrm{C}\right.$ dec. to $260^{\circ} \mathrm{C}$ inc. $)$ |  |

## Electrical Form

C 15 amp at 125 or 250 VAC; $1 / 8$, hp at 125 VAC; $1 / 4 \mathrm{hp}$ at 250 VAC;
.5 amp resistive, .04 amp inductive at 125 VDC
CC $11 \mathrm{amp}, 1 / 4 \mathrm{hp}$ at 125 or 250 VAC; 5 amp resistive, 3 amp inductive 28 at VDC; .5 amp resistive at 125 VDC
Z 15 amp at 125 or $250 \mathrm{VAC} ; 1 / 4 \mathrm{hp}$ at $125 \mathrm{VAC} ; 1 / 2 \mathrm{hp}$ at $250 \mathrm{VAC} ; 1 \mathrm{amp}$ resistive, .5 amp inductive at 125 VDC

## Enclosure

3 Meets or exceeds the requirements of NEMA Type 3, 3R, 3S, 4, 4X and 13, IP65

## Miscellaneous

A Epoxy paint exterior - extra protection for severe environments
D SIL 3 approval and marking, per IEC61508 (includes FMEA report)
J Annealed stainless steel port screws for $\mathrm{H}_{2} \mathrm{~S}$ environments
L Neon indicator light - 115 VAC
M Gold electrical contacts for extremely low current applications - (Not with Z Form)
P 5-Pin Brad Harrison connector (Reduce AC electrical rating to 8 amps) (Not for CC3 Electrical)
U M20 x 1.5 Electrical Conduit Adapter
W Stainless steel screws - exterior
X CE Mark

## Special (Consult representative or factory)

- Thermowells
- Non-catalog adjustable range and/or set point and deadband
- Optional probe lengths available


## 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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