## P-Series Temperature Switches

## FEATURES

- Precision SPDT snap-acting micro switch
- Setpoint adjustable from 0-100\% of range
- Single or dual adjustable set points
- Choice of temperature ranges (from $-40^{\circ} \mathrm{F}$ to $750^{\circ} \mathrm{F}$ )
- Fixed or adjustable deadband
- Direct or remote reading thermal systems
- Wide selection of switch elements


## TYPICAL USES

- Refineries
- Chemical and Petrochemical Plants
- Water and Sewage Treatment Plants
- Steel Mills
- Pumps, Compressors and Turbines
- Boilers and Burners
- Reverse Osmosis Systems


KEY BENEFITS

- Dual chamber design provides safe setpoint adjustment even with power connected
- Epoxy-coated aluminum enclosures provides added protection in harsh environments
- Easy-to-read scale for approximate setpoint indication ( $\pm 5 \%$ accuracy)
- Hermetically sealed micro switches offer improved reliability and safety (UL Class I Div II approval)

| WETTED MATERIAL |  |
| :---: | :---: |
| Direct Mount | Remote Mount |
| 316 SS | Bulb capillary: 316 SS <br> Spiral armor: 302 SS |

## Data Sheet

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| TABLE 1 - OPTIONS |  |  |
| :---: | :--- | :--- |
| Code | Description |  |
| CH | Chained cover | Notes |
| FP | Fungus proof | Setpoint must be given as increasing or <br> decreasing |
| FS | Factory adjusted setpoint |  |
| C8 | CSA approved | Conduit reducing bushing |
| JL | $3 / 4$ to $1 / 2$ reducing bushing |  |
| K3 | Terminal blocks | Tagging SS |
| NH | $3 / 4 \prime$ sealed conduit connection with 16" lead wires |  |
| PM | $1 / 2$ Male NPT bushing | Remote mount only - seals capillary to <br> thermowell |
| BX |  |  |


| STANDARD TEMPERATURE RANGE SELECTION |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Nominal Range |  | Max. Temperature <br> ${ }^{\circ} \mathrm{F}$ | Approximate Deadband Switch Element in ${ }^{\circ} \mathrm{F}$ |  |  |  |  |  |  |  |  |
| ${ }^{\circ} \mathrm{F}$ | ${ }^{\circ} \mathrm{C}$ | ${ }^{\circ} \mathrm{F}$ | $\begin{gathered} \text { PTA } \\ \text { J,H } \end{gathered}$ | PTS |  |  |  | PTD |  |  |  |
|  |  |  |  | G | J,H | K,F | P | G,G | JJ,HH | KK,FF | PP |
| -40 to 60 | -40 to 16 | 400 | 8-90 | 2-10 | 9-18 | 1-2 | 1-5 | 2-10 | 9-18 | 1-2 | 1-5 |
| 0 to 100 | -20 to 40 | 400 | 30-90 | 2-15 | 10-30 | 1-3 | 1.5-7 | 2-15 | 10-30 | 1.5-3 | 1.5-7 |
| 75 to 205 | 20 to 95 | 400 | 34-120 | 2-17 | 10-34 | 1.5-3.5 | 1.5-8 | 2-17 | 10-34 | 1.5-3.5 | 1.5-8 |
| 150 to 260 | 65 to 125 | 400 | 25-100 | 2.5-12 | 9-25 | 1-2.5 | 1-7 | 2.5-12 | 9-25 | 1-2.5 | 1-7 |
| 235 to 375 | 110 to 190 | 500 | 35-130 | 2-18 | 10-35 | 1-4.5 | 1.5-8 | 2-18 | 10-35 | 1-3.5 | 1.5-8 |
| 350 to 525 | 175 to 275 | 700 | 40-165 | 3-25 | 15-40 | 2-3.5 | 2.5-11 | 3-25 | 15-40 | 2-4.5 | 2.5-11 |
| 500 to 750 | 260 to 400 | 900 | 50-200 | 20-36 | 36-60 | 5-10 | 6-21 | 20-36 | 36-60 | 5-10 | 6-21 |

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## DIMENSIONS in [ ] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings

DIRECT MOUNT


| " S " Dimensions |  |
| :---: | :---: |
| $23 / 4 "$ | $[70]$ |
| $4 "$ | $[102]$ |
| $6 "$ | $[152]$ |
| $9 "$ | $[229]$ |
| $12 "$ | $[305]$ |

REMOTE MOUNT

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