

# Neo-Dyn<sup>®</sup> Series 100TC Temperature Switch/Internal Adjustment

Remote mount adjustable temperature switch with efficient Nega-Rate® Belleville spring mechanism and saturated vapor sensor for quick response and narrow deadband.

Operating Temperature Data								
Adjustable Range Number	Adjustable Set Point Range		Deadband <sup>†</sup> (approx) Bottom/Top		Proof Temperature			
	Increasing °F	Decreasing °F	۰F	∘C	۰F	∘C		
В	-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		
Н	+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		
L	+485 to +720	+445 to +714	40/6	22 / 3	900*	482		

<sup>†</sup>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

Remote mount Stainless steel 6' capillary with armor jacket, 10" minimum bendable tubing and 1/2" adjustable gland nut. Optional capillary lengths available.

### Temperature Range

Ambient: -40°F to +180°F

(-40°C to +82°C)

### **System Pressure**

1500 psig maximum

### **Proof Pressure**

2250 psig

### Adjustment

Concealed wrench flat adjustment with range scale

### **Shipping Weight**

Approximately 5 pounds



## Ordering Sequence — Select desired option for each category

#### **OPTIONS**

### Wetted Material

5 300 series stainless steel, graphite filled non-asbestos packing

### Adjustable Range

rujuotabio rungo								
В	-69°F dec. to	+65°F inc.	(-56°C dec. to	18°C inc.)				
D	+7°F dec. to	+175°F inc.	(-14°C dec. to	79°C inc.)				
F	+70°F dec. to	+250°F inc.	(21°C dec. to	121°C inc.)				
Н	+145°F dec. to	+360°F inc.	(63°C dec. to	182°C inc.)				
J	+305°F dec. to	+500°F inc.	(152°C dec. to	260°C inc.)				
L	+445°F dec. to	+720°F inc.	(229°C dec. to	382°C inc.)				

### Electrical Form

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

### Miscellaneous

- A Epoxy paint exterior extra protection for severe environments
- D SIL approval and marking, per IEC61508 (includes FMEA report)
- J Annealed stainless steel port screws for H<sub>2</sub>S environments
- L Neon indicator light 115 VAC
- M Gold electrical contacts for extremely low current applications
- P 5-Pin Brad Harrison connector (Reduce AC electrical rating to 8 amps) (Not for CC3 Electrical)
- W Stainless steel screws exterior
- X CSA Certified and CE Mark

### Optional Capillary Lengths

10', 15', 20' and 25' lengths available

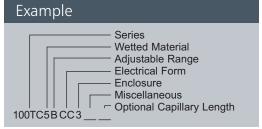
(insert appropriate number at end of model number — see Example)

### Special (Consult representative or factory)

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

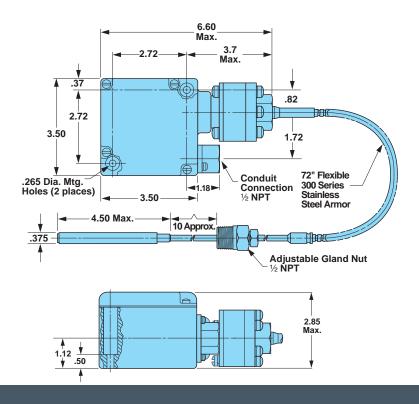
# Ordering Procedure

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

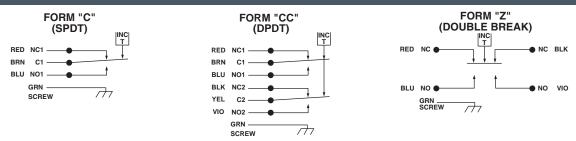


<sup>\*</sup>Thermowell required for temperatures above 500°F.

# **Envelope Dimensions**



# Electrical Form



# Basic Principles of Design

