

Neo-Dyn® Series 100TC Temperature Switch/Internal Adjustment



**Weather Proof
(NEMA 4 and 13)**

DESCRIPTION

Remote mount adjustable temperature switch with 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† (approximate) °F	Proof Temperature °F
	Increasing °F	Decreasing °F		
B	-50 to +65	-69 to +62	19/3	250
D	+30 to +175	+7 to +172	23/3	400
F	+95 to +250	+70 to +247	25/3	450
H	+175 to +360	+145 to +355	30/5	500
J	+335 to +500	+305 to +495	30/5	600
L	+485 to +720	+445 to +714	40/6	900
N	+645 to +925	+600 to +919	45/6	1200

†Deadband decreases as the adjustable set point is increased.

Standard Specifications

Electrical

Snap action electrical switch listed by Underwriters' Laboratories, Inc. and CSA Testing Laboratories

Electrical Connection

½" - 14 NPT female conduit connection with terminal block

Process Connection

½" - 14 NPT Male
Remote mount
Stainless steel 6' capillary with armor jacket, 10" minimum bendable tubing and ½" 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

B -69°F dec. to +65°F inc.
D +7°F dec. to +175°F inc.
F +70°F dec. to +250°F inc.
H +145°F dec. to +360°F inc.
J +305°F dec. to +500°F inc.
L +445°F dec. to +720°F inc.
N +600°F dec. to +925°F inc.

Electrical Form

C 15 amps 125, 250 or 480 VAC; 2 amps 600 VAC; ½ hp 125 VAC; ¼ hp 250 VAC; .5 amps resistive, .04 amps inductive 125 VDC
CC 11 amps and ¼ hp 125 or 250 VAC; 5 amps resistive, 3 amps inductive 28 VDC; .5 amps resistive 125 VDC
Z 15 amps 125, 250 or 480 VAC; ¼ hp 125 VAC; ½ hp 250 VAC; 1 amp resistive, .5 amps inductive 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
J Annealed stainless steel port screws for H₂S 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

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

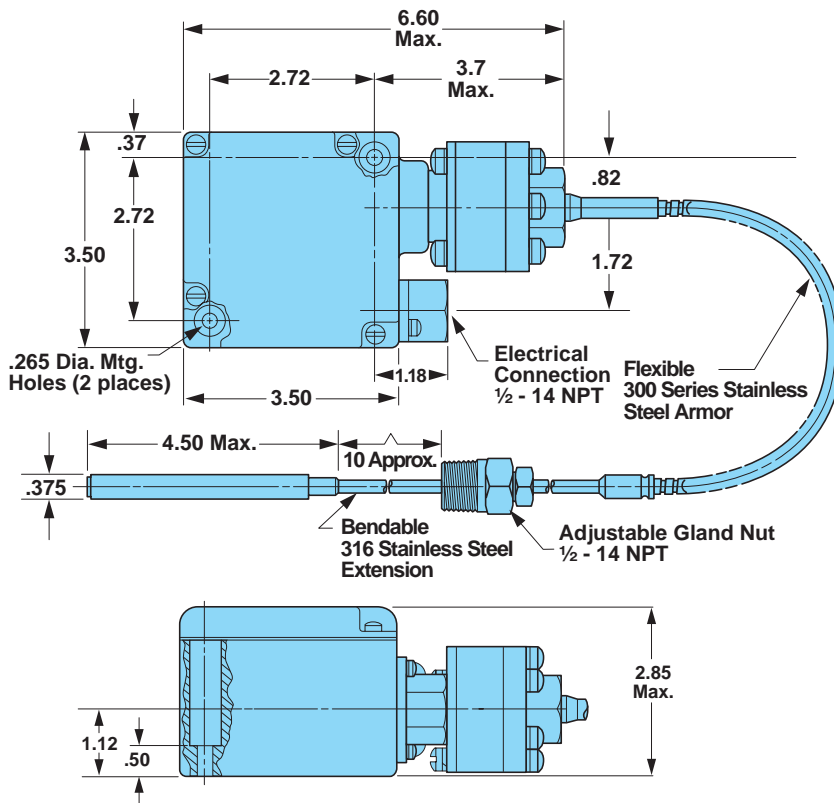
- When factory presetting is desired, stipulate set point, increasing or decreasing
- Insert available option number or letter designation as required

Example

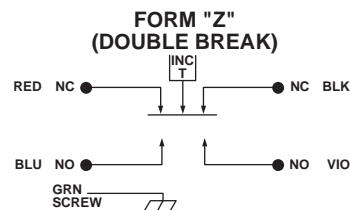
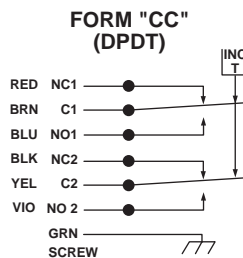
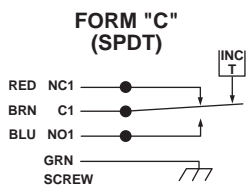
100TC5B CC3 _ _ _

Series
Wetted Material
Adjustable Range
Electrical Form (specify)
Enclosure
Miscellaneous
Optional Capillary Length

Envelope Dimensions



Electrical Form



Basic Principles of Design

