

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



**Explosion Proof
Hermetically Sealed
(NEMA 7 and 9)**

DESCRIPTION

Direct mount adjustable temperature switch for use in hazardous areas. Utilizes 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

†Deadband decreases as the adjustable set point is increased.

Standard Specifications

Electrical

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

Electrical Connection

½" - 14 NPT male conduit connection with PVC insulated 18 AWG leads 18" long

Pressure Connection

½" - 14 NPT Male
Direct mount

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 3 pounds

Ordering Sequence — Select desired option for each category

OPTIONS

Wetted Material

3 300 series stainless steel port and probe assembly, Viton seal
NOTE: Range "J" uses Teflon seal

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.

Electrical Form

C 11 amps and ¼ hp 125 or 250 VAC; 5 amps resistive, 3 amps inductive 28 VDC; .5 amps resistive 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

Enclosure

6 Explosion proof • factory sealed • hermetically sealed electrical assembly P/N 057-0030 (C Form); P/N 057-0057 (CC Form). **Underwriters' Laboratories, Inc.** listed (file #E56677) or **Canadian Standards Association** certified (file #34146) for Division 1 and 2; Class I, Groups A, B, C and D; Class II, Groups E, F and G hazardous locations (NEMA 7 and 9)

Miscellaneous

A Epoxy paint exterior — extra protection for severe environments
I ¾" Conduit box with terminal strip
J Annealed stainless steel port screws for H₂S environments
M Gold electrical contacts for extremely low current applications
N CENELEC approval
R 72" Electrical free leads
W Stainless steel screws — exterior

Special (Consult representative or factory)

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

Ordering Procedure

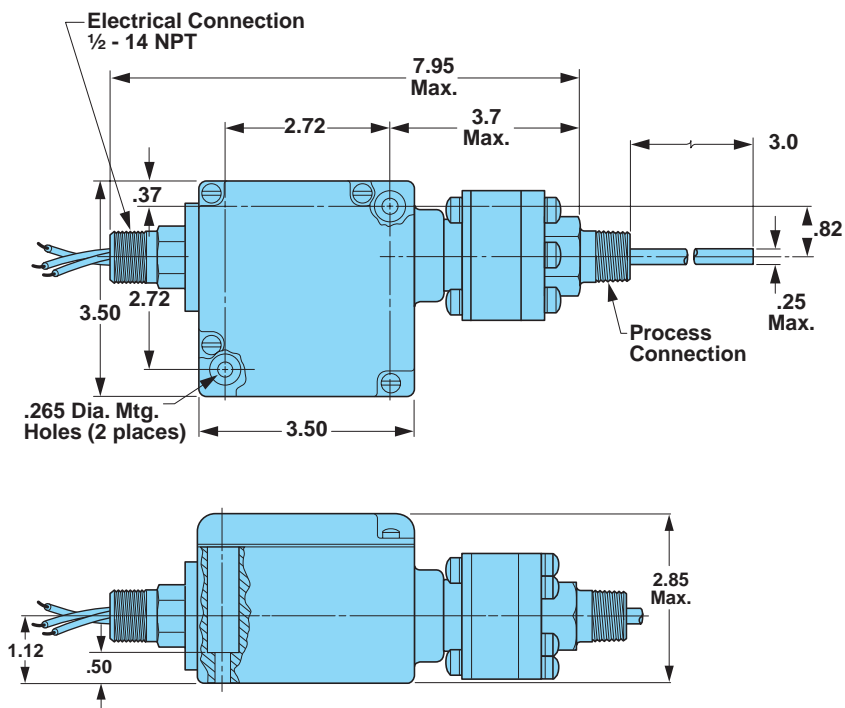
- When factory presetting is desired, stipulate set point, increasing or decreasing
- Insert available option letter designation as required

Example

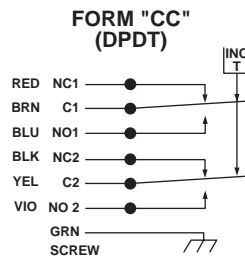
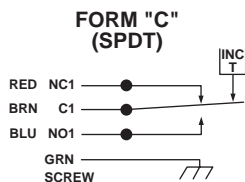
Series
Wetted Material
Adjustable Range
Electrical Form (specify)
Enclosure
Miscellaneous

100T 3B CC 6 _

Envelope Dimensions



Electrical Form



Basic Principles of Design

