Seo-Dy

Series 100TC Temperature Switch/Internal Adjustment

Remote mount adjustable temperature switch for use in hazardous areas. Utilizes the efficient Nega-Rate[®] Belleville spring mechanism and saturated vapor sensor for quick response.

Operating Temperature Data								
Adjustable Range	Adjustable Set Point Range		Deadband [†] (approx) Bottom/Top		Proof Temperature			
Number	Increasing °F	Decreasing °F	۰ F	۰C	۰F	۰C		
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		

[†]Deadband decreases as the adjustable set point is increased. For narrow deadband select set point in upper half of adjustable range.

*Thermowell required for temperatures above 500°F.

Standard Specifications

Electrical

Snap action electrical switch assemblies, Part Numbers 057-0770 & 057-0772 (Form C) and 057-0771 & 057-0773 (Form CC), are listed by Underwriters' Laboratories, Inc., CSA International and NCC (INMETRO). See the miscellaneous option N for additional listings.

Electrical Connection

1/2 NPT male conduit connection with PVC insulated 18 AWG, 18" long leads

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

Temperature Range

Ambient: -40°F to +180°F (-40°C to +82°C)

capillary lengths available.

See Electrical Assembly specification sheet for Temperature Class Ratings.

System Pressure: 1500 psig max.

Proof Pressure: 2250 psig

Adjustment

Concealed wrench flat adjustment with range scale

Shipping Weight: Approximately 5 pounds



Order Miscellaneous Dotion "D'



Explosion Proof Hermetically Sealed (NEMA 4X, 7, 9 and 13)

Ordering Sequence — Select desired option for each category

OPTIONS

В D F н

JL

6

Wetted Material

300 stainless steel, graphite filled non-asbestos packing 5 ustable Der Δd

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

Electrical Form

- 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
- 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

Enclosure

Includes an explosion proof, hermetically-sealed electrical assembly. EX d IIC. Division 1 and 2, Class I, Groups A, B, C, and D; Class II, Groups E, F, and G.

NEMA 4X, 7, and 9; IP66. Leads are factory sealed and Pressure Switches are Dual Seal Certified. Miscellaneous

- Epoxy paint exterior extra protection for severe environments
- A D SIL 3 approval and marking, per IEC61508 (includes FMEA report)
- 3/4 NPT conduit box with terminal strip (Groups C & D only, not available with N option) L
- Annealed stainless steel port screws for H₂S environments
- M
- (1 Amp at 125 VAC; 1 Amp Res, 0.5 Amp Ind. at 28 VDC) (Not with Z Form) ATEX and IECEx with CE Mark Ν
- 72" Electrical free leads R
- M20 x 1.5 Electrical Conduit Adapter U
- Ŵ Stainless steel screws exterior

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

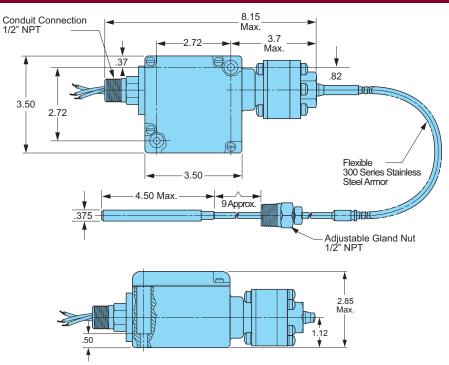
- When factory presetting is desired, stipulate set point, increasing or decreasing
- Insert available option number or letter designation as required

Example

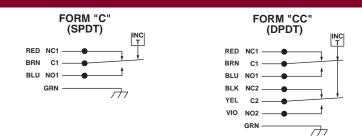


Series 100TC Temperature Switch/Internal Adjustment

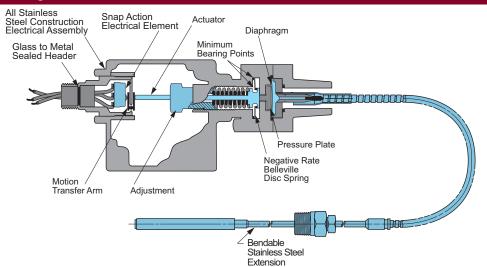
Envelope Dimensions



Electrical Form



Basic Principles of Design



Neo-Dyn® 28150 Industry Drive Valencia, CA 91355 tel: 864-647-9521 fax: 864-647-9574 www.neodyn.com

An ITT Company AER0935R2 6/22 Specifications and dimensions subject to change.