

Neo-Dyn® Series 132TC Temperature Switch/Internal Adjustment



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

DESCRIPTION

Compact, adjustable temperature switch featuring the efficient Nega-Rate® Belleville disc spring for set point stability and vibration resistance. Available with all stainless steel exterior and interior construction together with a hermetically sealed, explosion-proof electrical assembly. Ideally suited for applications involving hazardous and corrosive medias or environments. Comes with capillary for remote mount up to 25 feet.

Operating Temperature Data

| Adjustable Range | Adjustable Set Point Range | | Deadband† (approximate) Bottom/Top of Range °F | Proof Temperature °F |
|------------------|----------------------------|---------------|---|----------------------|
| | Increasing °F | Decreasing °F | | |
| B | -50 to +30 | -69 to +26 | 19/4 | 250 |
| D | +30 to +125 | +7 to +121 | 23/4 | 300 |
| F | +95 to +200 | +70 to +196 | 25/4 | 400 |
| H | +115 to +230 | +89 to +224 | 26/6 | 400 |
| J | +175 to +300 | +146 to +294 | 29/6 | 500 |
| L | +260 to +360 | +236 to +356 | 24/4 | 500 |
| N | +290 to +395 | +263 to +391 | 27/4 | 500 |
| P | +365 to +480 | +338 to +476 | 27/4 | 600* |
| R | +485 to +655 | +445 to +646 | 40/9 | 750* |

†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 assembly listed by Underwriters' Laboratories, Inc., Factory Mutual and CSA International

Electrical Connection

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

Process Connection

½ NPT Male
Remote mount
Stainless steel 6' capillary with armor jacket, 10" minimum bendable tubing and ½" adjustable gland nut. Optional capillary lengths available.

System Pressure

1500 psig maximum

Proof Pressure

2250 psig

Adjustment

Internal, slotted adjustment nut with range scale

Temperature Range

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

See Electrical Assembly specification sheet for Temperature Class Ratings.

Shipping Weight

Approximately 3.5 pounds

Ordering Sequence — Select desired option for each category

OPTIONS

Wetted Material

5 316 stainless steel, graphite filled non-asbestos packing

Adjustable Range

B -69°F dec. to +30°F inc.
D +7°F dec. to +125°F inc.
F +70°F dec. to +200°F inc.
H +89°F dec. to +230°F inc.
J +146°F dec. to +300°F inc.
L +236°F dec. to +360°F inc.
N +263°F dec. to +395°F inc.
P +338°F dec. to +480°F inc.
R +445°F dec. to +655°F inc.

Electrical Form

C 11 amp, ¼ hp at 125 or 250 VAC; 5 amp resistive, 3 amp inductive at 28 VDC; .5 amp resistive at 125 VDC
CC 11 amp, ¼ hp at 125 or 250 VAC; 5 amp resistive, 3 amp inductive at 28 VDC; .5 amp resistive at 125 VDC

Enclosure

6 Explosion proof, hermetically-sealed electrical assembly, leads factory sealed, P/N 057-0770 (C Form) and P/N 057-0771 (CC Form); **Underwriters' Laboratories, Inc.** listed (File E56677), **CSA International** certified (File LR34146) and **Factory Mutual** approved (File J.I.1R5A9.AE) for Division 1 and 2; Class I, Groups A, B, C and D; Class II, Groups E, F and G Hazardous Locations; NEMA type 7 and 9.

Miscellaneous

A Epoxy paint exterior — extra protection for severe environments
H Stainless steel body
I ¾ NPT conduit box with terminal strip (Groups C & D only)
J Annealed stainless steel port screws for H₂S environments
M Gold electrical contacts for extremely low current applications
N ATEX approval with CE Mark
R 72" Electrical free leads

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

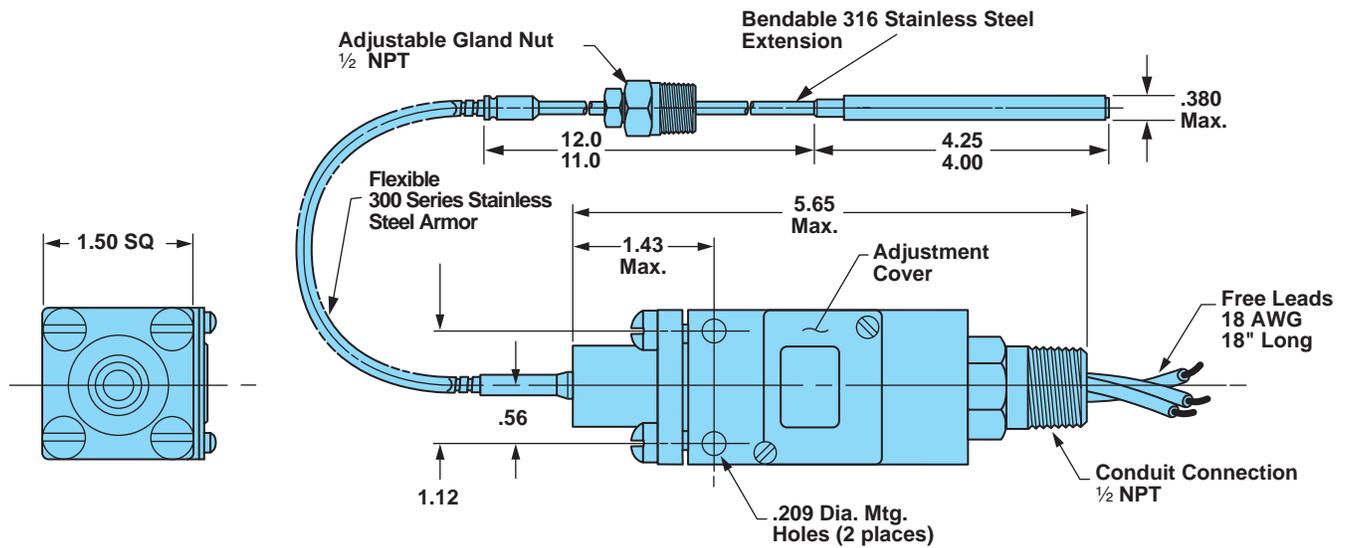
- When factory presetting is desired, stipulate set point, increasing or decreasing
- Insert available option number or letter designation as required

Example

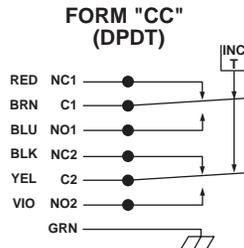
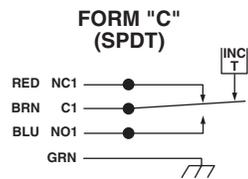
Series
Wetted Material
Adjustable Range
Electrical Form
Enclosure
Miscellaneous
Optional Capillary Length

132TC5B CC 6

Envelope Dimensions



Electrical Form



Basic Principles of Design

