Neo-Dyn® Series 110P Pressure Switch/Internal Adjustment

Sensitive Nega-Rate® Belleville spring adjustable pressure switch for low pressure applications.

Operating Pressure Data

<table>
<thead>
<tr>
<th>Adjustable Range Number</th>
<th>Adjustable Set Point Range</th>
<th>Deadband (approximate)</th>
<th>Maximum Recommended System Pressure</th>
<th>Proof Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Increasing</td>
<td>Decreasing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>10” H2O to 100” H2O</td>
<td>7” H2O to 97” H2O</td>
<td>3” H2O</td>
<td>300</td>
</tr>
<tr>
<td>4</td>
<td>3 to 15</td>
<td>2.75 to 14.75</td>
<td>.25*</td>
<td>300</td>
</tr>
</tbody>
</table>

All values given in psig.
*Deadband increases to .4 psi (approx.) in “CC6” configuration.

Standard Specifications

Electrical
Snap action electrical switch listed by Underwriters’ Laboratories, Inc., Factory Mutual and CSA International

Electrical Connection
1/2 NPT male conduit connection with PVC insulated 16 AWG, 18” long leads

Pressure Connection
Wetted Material 1
1/4 NPT Female
Wetted Material 4
1/2 NPT Female

Temperature Range
-40°F to +180°F
(-40°C to +82°C)

*Temperature limits change with O-Ring selection. See Electrical Assembly specification sheet for Temperature Class Ratings.

Adjustment
Concealed wrench flat adjustment with range scale

Shipping Weight
Approximately 3 pounds

Order Miscellaneous Option “D”

Ordering Sequence — Select desired option for each category

OPTIONS

Wetted Material
1 Aluminum port, Teflon coated polyimide diaphragm and Buna-N O-Ring
4 316 stainless steel port, Teflon coated polyimide diaphragm and Buna-N O-Ring

Adjustable Range
2 7” H2O dec. to 100” H2O inc. (17 millibar dec. to 249 millbar inc.)
4 2.75 psig dec. to 15 psig inc. (0.2 bar dec. to 1.0 bar inc.)

Electrical Form
C 11 amp, 1/4 hp at 125 or 250 VAC; 5 amp resistive, 3 amp inductive 28 VDC; .5 amp resistive at 125 VDC
CC 11 amp, 1/4 hp at 125 or 250 VAC; 5 amp resistive, 3 amp inductive 28 VDC; .5 amp resistive at 125 VDC

Enclosure
6 Explosion proof, hermetically-sealed electrical assembly, EX d IIC.
Part Numbers 057-0770 & 057-0772 (Form C) and 057-0771 & 057-0773 (Form CC).
Agency listings include Underwriters Laboratories, Inc., CSA International, Factory Mutual, and Inmetro. 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
A Epoxy paint exterior — extra protection for severe environments
B Viton O-Ring
C EPR O-Ring
D SIL approval and marking, per IEC61508 (includes FMEA report)
F Fire fuse — for fire-tested equipment (wetted material 4 only; not available with option G)
G 1/2 NPT male port (wetted material 4 only)
I 3/4 NPT conduit box with terminal strip (Groups C & D only, not available with N option)
M Gold electrical contacts for extremely low current applications
N ATEX and IECEx with CE Mark
R 72” Electrical free leads
S Stainless steel diaphragm (wetted material 4 only)
W Stainless steel screws — exterior (standard with wetted material 4)

Special (Consult representative or factory)
• Non-catalog adjustable range and/or set point, deadband and proof pressure
• Chemical seals installed

Ordering Procedure

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

Example

110P 1 2 C 6
**Field Adjustable**
7° H₂O to 15 psig

**Series 110P**

### Envelope Dimensions

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>WETTED MATERIALS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>6.75 Max.</td>
<td>½ NPT</td>
<td>3.7 Max.</td>
</tr>
<tr>
<td>4</td>
<td>7.15 Max.</td>
<td>½ NPT</td>
<td>4.1 Max.</td>
</tr>
</tbody>
</table>

### Electrical Form

**FORM "C"** (SPDT)
- RED: NC1
- BRN: C1
- BLU: NO1
- GRN: INC

**FORM "CC"** (DPDT)
- RED: NC1
- BRN: C1
- BLU: NO1
- BLK: NC2
- YEL: C2
- VIO: NO2
- GRN: INC

### Basic Principles of Design

- All Stainless Steel Construction Electrical Assembly
- Snap Action Electrical Element
- Actuator Adjustment
- Diaphragm
- O-Ring
- Glass to Metal Sealed Header
- Motion Transfer Arm
- Pressure Port
- Negative Rate Belleville Disc Spring

Neo-Dyn®
28150 Industry Drive
Valencia, CA 91355
tel: 661 295-4000
fax: 661 294-1750
www.neodyn.com

Specifications and dimensions subject to change.