

# Neo-Dyn® Series 801P Smart-Switch™

The Neo-Dyn® Smart-Switch™ is a solid state pressure switch designed for a wide range of applications involving pneumatic and low impulse hydraulics up to 6000 psig system pressures. Pressure is indicated continuously in psig unless the Display Saver feature is utilized. Options available include a 4-20 mA output and a two-way RS232 communication port. Software is available for IBM® compatible machines. Our all metal "NEMA 4X" rugged construction ensures compatibility in your environment.

## Operating Pressure Data

Adjustable Range Number	Adjustable Set Point Range		Deadband (adjustable % of full scale)	Maximum Operating Pressure	Proof Pressure
	Increasing	Decreasing			
02	0.1 to 5	0.05 to 4.95	1 to 99	12.5	25
04	0.3 to 15	0.15 to 14.85	1 to 99	37.5	75
05	0.6 to 30	0.30 to 29.7	1 to 99	75	150
07	2.0 to 100	1.00 to 99.0	1 to 99	250	500
09	5.0 to 250	2.50 to 247.5	1 to 99	625	750
11	10 to 500	5.0 to 495	1 to 99	1250	1500
12	20 to 1000	10 to 990	1 to 99	2500	3000
14	60 to 3000	30 to 2970	1 to 99	3000	5000
16	120 to 6000	60 to 5940	1 to 99	6000	10000

All values given in psig.

## Standard Specifications

### Electrical Connection

½ - 14 NPT male conduit connection with PVC insulated 22 AWG leads 18" long

### Pressure Connection

¼ - 18 NPT Female  
⅞ - 20 SAE (optional)

### Temperature Range

Operating: -15°F to +140°F  
(-26°C to +60°C)  
Storage: -30°F to +170°F  
(-34°C to +77°C)

### Transmitted Output

Scaleable 4 - 20 mA RS232 Computer Interface (both optional)

### Solid State Switching

(2) SPDT or (1) DPDT  
3 amps resistive - 1 amp inductive

### Relay Switching

(2) SPDT or (1) DPDT - 3 amps resistive

### Power Source

115/220 VAC or 18 - 28 VDC

### Shipping Weight

Approximately  
3.5 pounds

### Approvals

U.L. / CSA



Weather Proof  
(NEMA 4 and 13)

## Ordering Sequence — Select desired option for each category

### OPTIONS

#### Wetted Material

5 316 stainless steel port and diaphragm heliarc welded

#### Adjustable Range

02	0.05 psig dec. to 5.0 psig inc.	(3.4 millibar dec. to .34 bar inc.)
04	0.15 psig dec. to 15 psig inc.	(10.3 millibar dec. to 1.03 bar inc.)
05	0.30 psig dec. to 30 psig inc.	(20.7 millibar dec. to 2.07 bar inc.)
07	1.0 psig dec. to 100 psig inc.	(68.9 millibar dec. to 6.9 bar inc.)
09	2.5 psig dec. to 250 psig inc.	(.17 bar dec. to 17.2 bar inc.)
11	5.0 psig dec. to 500 psig inc.	(.34 bar dec. to 34.5 bar inc.)
12	10 psig dec. to 1000 psig inc.	(.69 bar dec. to 68.9 bar inc.)
14	30 psig dec. to 3000 psig inc.	(2.1 bar dec. to 207 bar inc.)
16	60 psig dec. to 6000 psig inc.	(4.1 bar dec. to 414 bar inc.)

#### Input Power

A 115 VAC, 60 Hz  
D 18 - 28 VDC  
E 220 VAC, 50/60 Hz

#### Switch Configuration

A 12 - 140 VAC (solid state)  
D 5 - 60 VDC (solid state)  
E 24 - 280 VAC (solid state)  
R 24 VDC or 240 VAC (relay)  
T 3 - 250 VDC (solid state, 250 mA res. max.)

#### Options

E ⅞ - 20 SAE port  
V Analog Output (4 - 20 mA)  
Z RS232 Communication

## Ordering Procedure

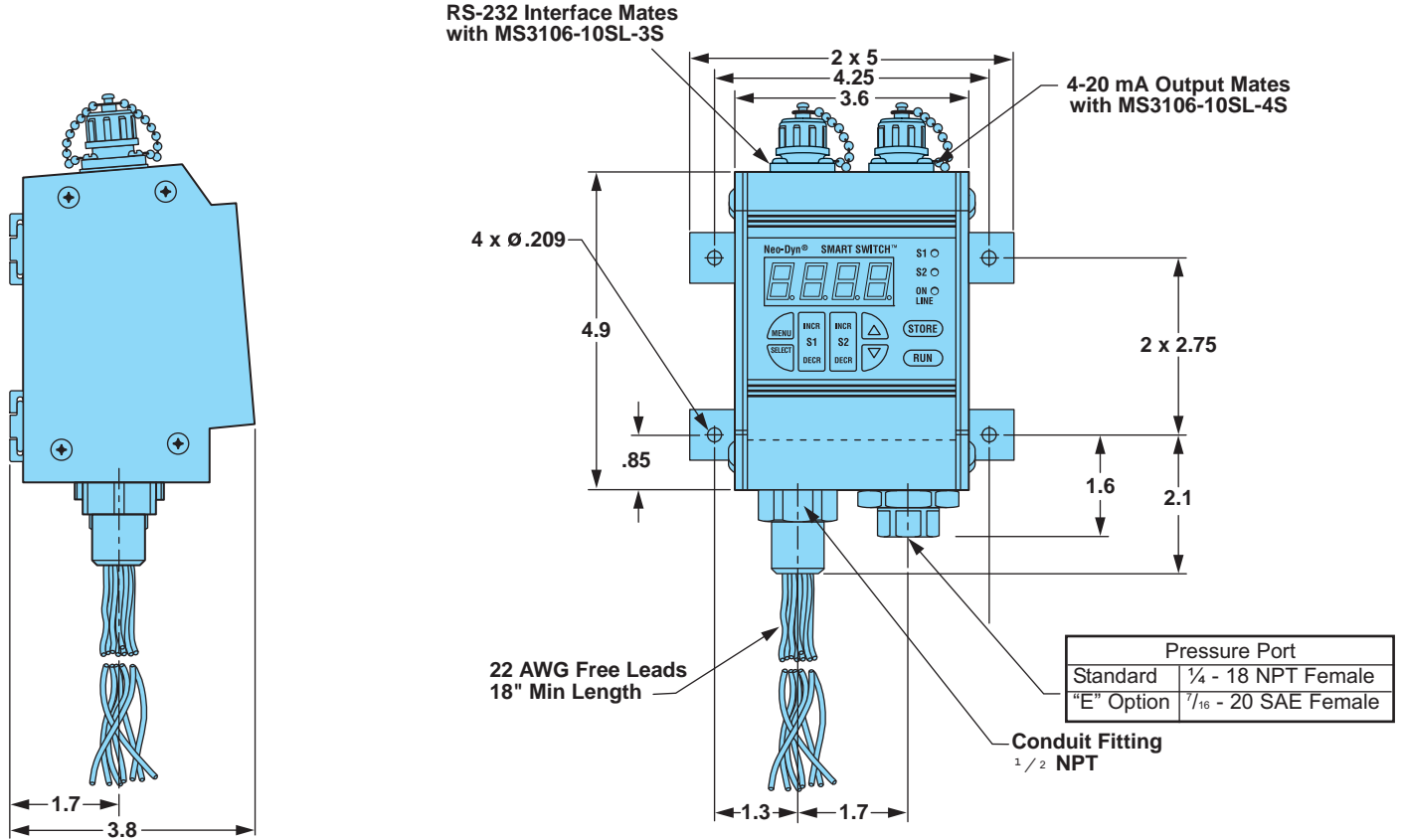
- When factory presetting is desired, stipulate set point, increasing AND decreasing, on purchase order
- Insert available option number or letter designation as required

## Example

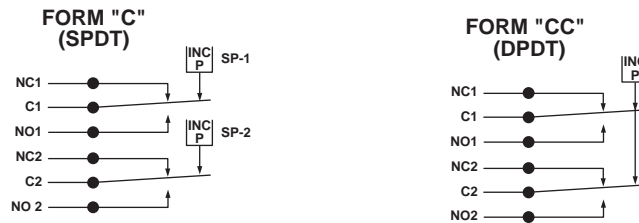
Model  
Wetted Material  
Range  
Input Power  
Switching Rate  
Options

801P507AR\_

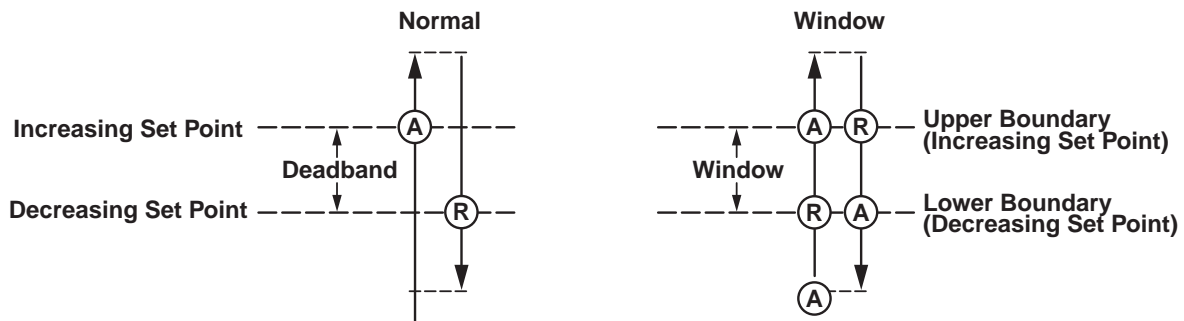
## Envelope Dimensions



## Electrical Form



## Operational Modes



(A) = Switch Activates

(R) = Switch Resets