

DPS2200X

# DIFFERENTIAL PRESSURE SWITCH-EXPLOSION PROOF

## DPS2200X

**Explosion Proof Type / Protection: IP68**  
**Adjustable Ranges: 400~10000 mmH<sub>2</sub>O**  
**Proof Pressure to 500psi**  
**Temperature: -30 to 205°C**

(When the operating temperature exceeds 120°C, a cooling element (New-Flow's CF or CT series) must be installed!)

The New-Flow DPS2200X, an explosion proof differential pressure switch, is designed to be used in control systems. DPS2200X has high set point repeatability and narrow dead band features. A variety of range selections are available upon request. Easily adjusted to the set point, no special tools needed!

### Technical Data

**Switch Data:** one SPDT & two SPDT Microswitch, 15amps 125/250VAC, DC 125V 0.4A, DC 30V 3A, / Gold Contact Microswitch 1A 125/250VAC, / Hermetically Sealed Switch 5A/250VAC

**Housing:** die cast aluminum alloy with paint, and SS316 available

**Conduit Connection:** Female 3/4", 1/2"NPT, M20 x P1.5 available

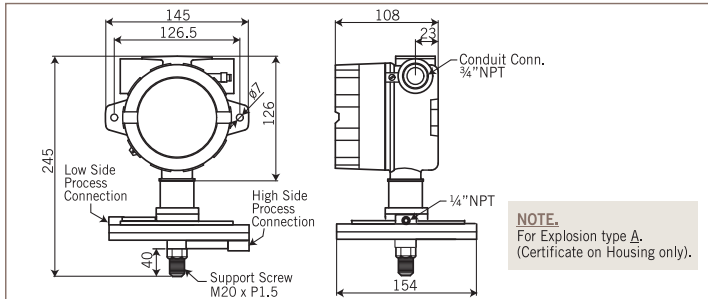
**Pressure Element:** welded type diaphragm

**Process Materials:** wetted parts are all in SS316/SS316L

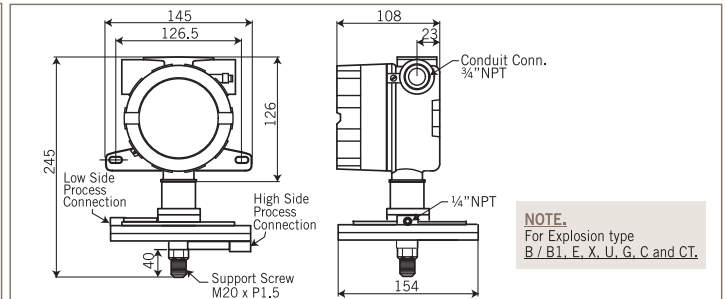
**Process Conn.:** Female 1/2" or 1/4"NPT, BSP, PT; and M20 x P1.5 thread available

**Repeatability:** ±2% of full scale

### Dimensions-mm



**NOTE:**  
For Explosion type A.  
(Certificate on Housing only).



**NOTE:**  
For Explosion type B / B1, E, X, U, G, C and CT.

### Approvals:



TD0400TJ  
工電(2012)第00320號  
(ITR1)2017第07-00075號



Switches with UL & CSA Recognized and File No. E12252.



**Patent No.**

M450724  
China: 2976852

### Range Selection Table

Code	Adjustable Range	Dead Band	Max. Pressure Proof
10R	400~1900 mmH <sub>2</sub> O	30~80 mmH <sub>2</sub> O	500 psi
20R	1000~10000 mmH <sub>2</sub> O	70~200 mmH <sub>2</sub> O	500 psi

### Ordering Information

DPS2200X	Code	Range			
	10R	400~1900 mmH <sub>2</sub> O	20R	1000~10000 mmH <sub>2</sub> O	
		<b>Code</b>	<b>Wetted Parts Material</b>		
		A	SS316 / SS316L		
		<b>Code</b>	<b>Process Connection (with adaptor) - Female</b>		
		(1)	1/2"NPT (2) 1/4"NPT (3) 1/2"BSP (4) 1/4"BSP (5) 1/2"PT (6) 1/4"PT (7) M20 x P1.5		
		<b>Code</b>	<b>Conduit Connection</b>		
		(E)	3/4"NPT Female, standard (F) 1/2"NPT Female (G) M20 x P1.5 Female		
		<b>Code</b>	<b>Switch Form</b>		
	1	Micro Switch, 1 SPDT		2	Micro Switch, 2 SPDT (one setting point)
	3a	Gold Contact, 1 SPDT		3b	Gold Contact, 2 SPDT (one setting point)
	4a	Hermetically Switch, 1 SPDT		4b	Hermetically Switch, 2 SPDT (one setting point)
		<b>Code</b>	<b>Explosion Proof Type / Housing Material</b>		
	A	Certificate on Housing Only (FM Approval) / Aluminum alloy: Class I, Groups A, B, C & D; Class II, Groups E, F & G; Class III; NEMA 4X			
	B / B1	Taiwan Explosion Proof Certification / (B) Aluminum alloy (B1) SS316: Ex d IIB + H <sub>2</sub> T6 Gb			
	E	International IECEx Certification / Aluminum alloy: Ex db IIB + H <sub>2</sub> T6 Gb; Ex tb IIIC T85°C Db			
	X	Europe Union ATEX Certification / Aluminum alloy: II 2 G D Ex db IIB + H <sub>2</sub> T6 Gb Ex tb IIIC T85°C Db			
	U	UL Certification / Aluminum alloy: Class I, Division 1, Groups A, B, C & D; Class II, Division 1, Groups E, F & G			
	G	China Explosion Proof Certification / Aluminum alloy: Ex d IIB + H <sub>2</sub> T6 Gb; Ex tD A21 IP6X T85°C			
	C	International IECEx Certification & Europe Union ATEX Certification / Aluminum alloy: IECEx & ATEX (Ex II 2 G D) Certificate Ex db IIC T6...T5 Gb T6 (-20°C ≤ Ta ≤ +55°C) T5 (-20°C ≤ Ta ≤ +60°C) Ex tb IIIC T80°C...T88°C Db T80°C (-20°C ≤ Ta ≤ +55°C) T88°C (-20°C ≤ Ta ≤ +60°C)			
	CT	Taiwan Explosion Proof Certification / Aluminum alloy Ex db IIC T6...T5 Gb T6 (-20°C ≤ Ta ≤ +55°C) T5 (-20°C ≤ Ta ≤ +60°C) Ex tb IIIC T80°C...T88°C Db T80°C (-20°C ≤ Ta ≤ +55°C) T88°C (-20°C ≤ Ta ≤ +60°C)			
DPS2200X					Complete Ordering Code

WWW.NEW-FLOW.COM • TEL: 886-7-8135500 • FAX: 886-7-8225588 • Email: info@new-flow.com

P021

01Jan2023