

Electronic Pressure Transducer

UPA2-DMP333-EX

Electronic pressure transducer for explosion-hazard environments, with internal stainless steel diaphragm, linearity error 0.35% f.s.

Features

Intrinsically safe II 1G Ex ia IIC/IIB T4 Ga
Intrinsically safe II 1D Ex iaD 20 T85 °C
Excellent long term stability, also with high dynamic pressure loads
Insensitive to pressure peaks

Measuring ranges

0... 100 bar / 0...600 bar

Applications

Plant and machine engineering
Mobile Hydraulics



Technical Data

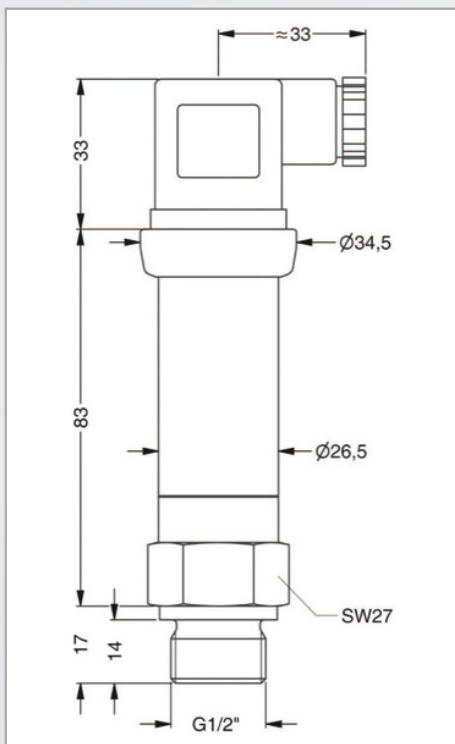
Sensor element:	Piezoresistive silicon measuring cell				
Materials:					
Wetted parts:	Stainless steel, mat. no. 1.4404				
Electronics housing:	Stainless steel, mat. no. 1.4404				
Seals:	FKM, EPDM				
System of protection:	IP67 with PG / IP65 with plug				
Protection class:	III				
Process connection:	G1/2 M DIN 3852				
Dimensions:	Ø26,5 x approx. 133 mm (with plug connector)				
Weight:	approx. 140 g				
Measuring ranges [bar]:	100	160	250	400	600
Overpressure [bar]:	210	600	1000	1000	1000
Linearity error:	≤± 0.35 % f. s., others on request				
Electrical connection:	Plug 4-pin, DIN EN 175 301-803-A (prev. DIN 43650)				

Temperature influence:	≤± 0.75 % f. s.
Compensation range:	0 ...+70 °C
Max. temperatures for environment:	in zone 0: -20 ... 60 °C with p _{atm} 0.8 bar up to 1.1 bar in zone 1 or higher: -20 ... 70 °C
Output signals:	4...20 mA (2 wire)
Power supply:	10... 28 V DC, reversed polarity protection (SELV, PELV)
Safety technical max. values:	U _i = 28 V _{DC} , I _i = 93 mA, P _i = 660 mW, C _i ≈ 0 nF, L _i ≈ μH, the supply connections have an inner capacity of max. 27 nF to the housing
Delay:	≤10 ms
Approval:	IBExU11ATEX1077 X EX: II G Ex ia IIC/B T4 Ga EX: II 1D Ex iaD 20 T85 °C -20 °C ≤ Ta ≤ +70 °C

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Dimensions (mm / inch)



Electrical Connection

Connection	Current output 4-20 mA (2-wire)	
	Plug	Cable
+ Supply	1	white
- Supply	2	brown
Shield	ground pin	green/yellow

Order Code

UPA2-DMP333-EX

100b
160b
250b
400b
600b

420

DIN
M12

G1/2"
G1/4"

F
E
B

Base Model

Range

0...100 bar
0...160 bar
0...250 bar
0...400 bar
0...600 bar

Output

4...20 mA/ 2-wires

Electrical Connection

Plug ISO 4400 (IP65)
M12x1 4 pol. (IP67)

Process Connection

G1/2" DIN3852
G1/4" DIN3852

Sealing

FKM
EPDM
NBR

Order code example:

UPA2-DMP333-EX / 100b / 420 / DIN / G1/4 / F