

Electronic Pressure Transducer

UPA2-DMK331P-EX

Electronic pressure transducer for explosion-hazard environments, with external stainless steel diaphragm, linearity error 0.5% f.s.

Features

Intrinsically safe II 1G Ex ia IIC T4 Ga
Intrinsically safe II 1D Ex ia IIIC T85 °C Da

Measuring ranges

0... 60 bar / 0...600 bar

Applications

Plant and machine engineering
Mobile Hydraulics



Technical Data

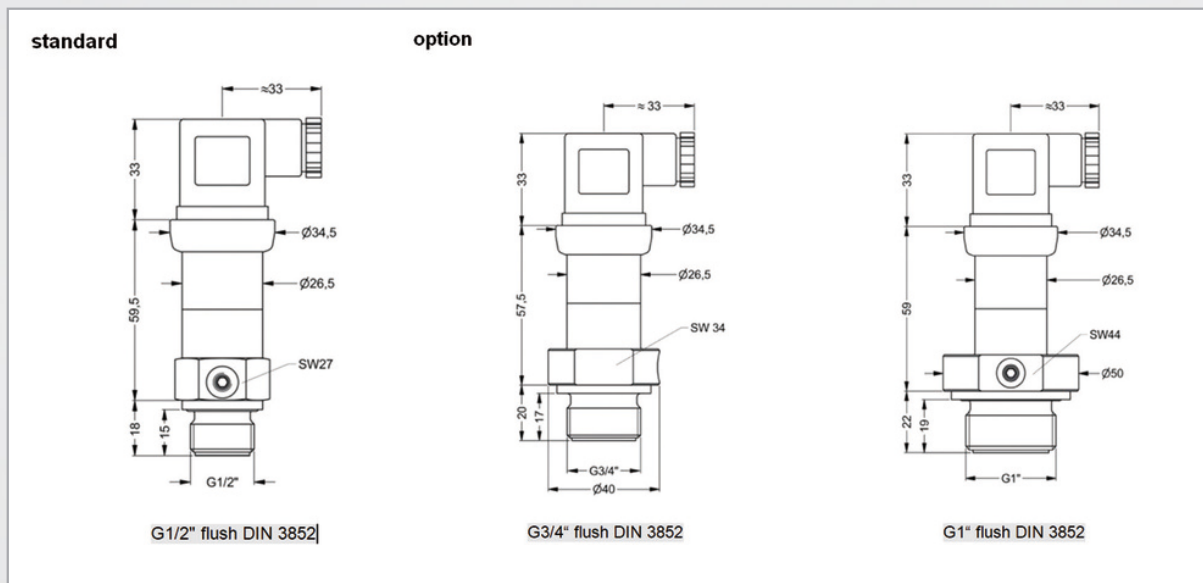
Sensor element:	Piezoresistive silicon measuring cell					
Materials:	Stainless steel, mat. no. 1.4404					
Wetted parts:	Stainless steel, mat. no. 1.4404					
Electronics housing:	Stainless steel, mat. no. 1.4404					
Seals:	FKM, EPDM					
System of protection:	IP65 / IP67					
Protection class:	III					
Process connection:	G1/2 M DIN 3852 flush diaphragm					
Dimensions:	Ø26,5 x approx. 111 mm (with plug connector)					
Weight:	approx. 140 g					
Measuring ranges [bar]:	60	100	160	250	400	600
Overpressure [bar]:	100	200	400	400	600	800
Linearity error:	≤± 0.5 % f. s., others on request					
Electrical connection:	Plug 4-pin, DIN EN 175 301-803-A (prev. DIN 43650)					
Temperature influence:	≤± 0.2 % f. s./10K					

Compensation range:	-20 ...+85 °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 1G Ex ia IIC T4 Ga EX: II 1D Ex ia IIIC T85 °C Da

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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-DMK331P-EX

60b
100b
160b
250b
400b
600b

420

DIN
M12

G1/2"
G3/4"
G1"

F
E
B

Base Model

Range

0...60 bar
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 flush diaphragm
G3/4" DIN3852 flush diaphragm
G1" DIN3852 flush diaphragm

Sealing

FKM
EPDM
NBR

Order code example:

UPA2-DMK331P-EX / 100b / 420 / DIN / G1/2" / F