

Overview

The **TxDP405** differential pressure sensor uses a silicon piezoresistive element, with temperature compensation and digital signal processing for precise output. Its stainless steel housing provides strong corrosion resistance, making it suitable for industrial control, flow measurement, and pneumatic applications.

TxDP405

Differential Pressure Sensor



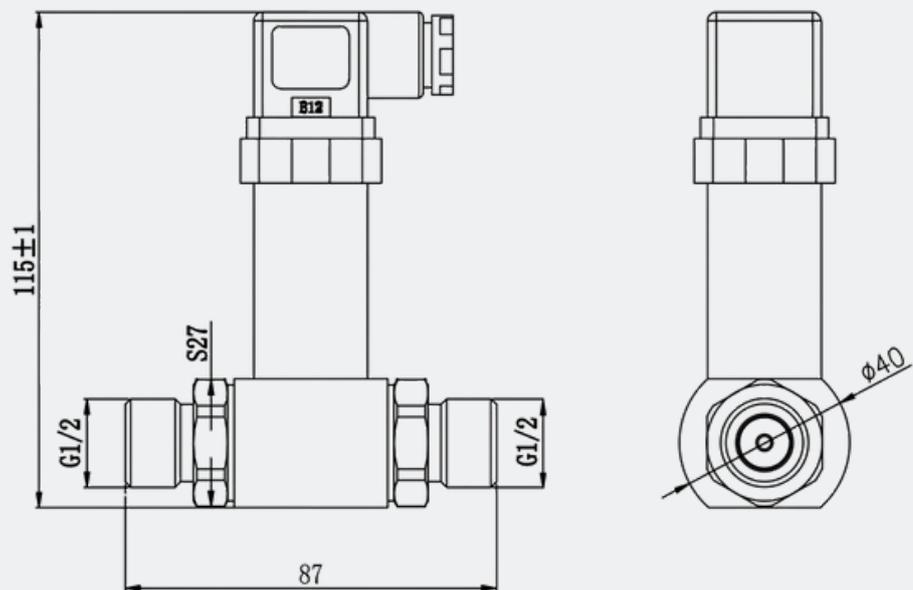
Applications

- Flow testing
- Sewage treatment systems
- Mine drainage pressure monitoring
- Hydropower station water head analysis
- Urban flood control & drainage
- Underwater engineering & testing
- Water-saving irrigation systems
- Central air-conditioning flow control

Features

- Compact and easy to install
- High stability, low drift
- Various structures to choose from
- Can be used in industrial applications

Dimensions



Specifications

Differential Pressure Sensor

Measurement Range	0~10kPa...3.5MPa		
Overload Pressure	1.5times of full scales		
Accuracy	±0.25%F.S.(100kPa~3.5MPa) / ±0.5%F.S.(0~100kPa)		
Stability	<0.5%F.S./Year		
Working Temperature	-10°C ~60°C		
Storage Temperature	-40~100°C		
Medium	Gas or liquid compatible with S304, 316L, fluoro rubber or nitrile rubber		
Electrical Performance	Two-wired	Three-wired	Four-wired
Output Signal	4~20mA	0-10V	RS485
Power Supply	10~36VDC	12~36VDC	10~30VDC
Electrical connection	DIN43650A (Big Hirschmann) , M12 Waterproof outlet, GX12 aviation connector(three cores/four cores), M12 four-core aviation connector		
Pressure Connection	G1/4、 NPT1/4、 R1/4、 G1/2、 7/16-20UNF、 M20*1.5、 M10*1、 M14*1.5 etc.		
Pressure Form	Differential pressure D		
Protection class	IP65		
Certification	RoHS, EU electrical safety standards CE		

Selection Code:

Code and description		Remark
TxDP405	Differential Pressure Sensor	Model
*	0~10kPa...3.5MPa	Range
A	4~20mA (Two-wired)	Output Mode
V10	0~10V (Three-wired)	
RS	RS485 (Four-wired)	
K	kPa	Unit
P	psi	
B	bar	
M	MPa	
0.25	0.25%F.S.	Accuracy
0.5	0.5%F.S.	
D	DIN43650A (Big Hirschmann)	Electrical connection
M	M12 Waterproof outlet	
C3	GX12 three cores aviation connector	
C4	GX12 four cores aviation connector	
H	M12 four cores aviation connector	Pressure connection
G	G1/4	
N	NPT1/4	
G2	G1/2	
M20	M20*1.5	
M14	M14*1.5	
M10	M10*1	
U	7/16-20UNF External thread	
R	R1/4	
1	1m	Cable length
2	2m	
3	3m	

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For technical support please contact: support@neowave.tech