

The selection is detailed on page 3



# LW-DP

## Pressure - Differential Pressure Sensor

### Working principle

The working medium pressure is transmitted through the standard process connector and then affects the internal pressure sensor element. Internal electronics convert raw transmitter signals into filtered, amplified, temperature compensated and standardized signals such as 4... 20mA signal, etc. The output signal is transmitted to the next unit for signal processing via standardized connectors or cables.

### Product description

Suitable for general industrial applications, it is not only compact, but also excellent quality and cost-effective. The pressure-differential pressure sensor is available in 1.0% and 0.5% nonlinear versions, and the user can choose the right version according to the specific application.

In addition, the product is shipped with the test data of the measurement point. cULus and EAC international certified for use around the world.

We can provide you with different pressure units and process connections in a short time to meet the requirements of your specific operational application.

### Product application

Machine building  
shipbuilding  
Measurement and control technology  
Hydraulic and pneumatic technology  
Pumps and compressors

### Functional characteristics

Measuring range: 0... 0.005 to 0... 100 MPa

Accuracy: 1.0 %BFSL or 0.5 %BFSL

Output: 4... 20mA/DC0... 10V/DC0... 5V and others

Electrical connections: Hersman connectors type A and C, M12\*1 round aviation connectors, 2 m long cable straight out

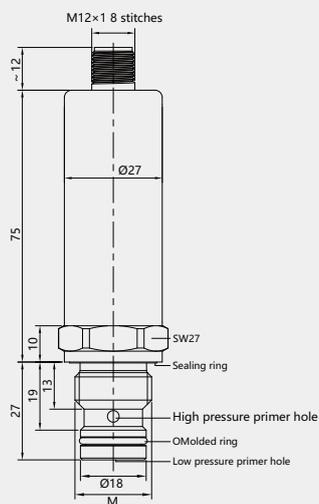
Process connectors: G 1/4 A DIN 3852-E, 1/4 NPT, etc



## Technical parameter

<b>Pressure sensor</b>	
Pressure range	0~0.8...1.0...1.6...3...10...20MPa
Overload pressure	200%F.S
Burst pressure	500%F.S
Working mode	Differential pressure
<b>Differential pressure sensor</b>	
Differential pressure range	0~0.8...1.0...1.6...3...4MPa
Overload pressure	200%F.S
Burst pressure	500%F.S
Working mode	Differential pressure
Operating voltage	24V DC(16~32V DC)
Output signal	(0~5)V、(0~10)V 4-20mA
Differential pressure switch	NPN, PNP switching signals (optional)
Comprehensive accuracy	±0.5%F.S(canonical value)
Measuring medium	Air, hydraulic oil, lubricating oil and other gases and liquids
Long-term stability	≤±0.2%F.S/ year
Ambient temperature	- 40 °C ~ 85 °C
Medium temperature	- 30 °C ~ 100 °C
Storage temperature	- 30 °C ~ 85 °C
Insulation impedance	≥200MΩ/2000V DC
Vibration resistance	Comply with IEC 60068-2-6(5... 2000Hz, 20g)
Impact resistance	Compliant with IEC 60068-2-27(50g, 11ms)
Electromagnetic compatibility	Compliant with IEC 61000-6-2/3/4
Class of protection	IP67

## Size mm



## Stitch definition



Pin	Stitch definition
1	Power supply+24V DC
2	0V
3	SP1
4	stress Signal
5	Differential pressure Signal
6	SP2
7	PE
8	Empty

## LW-DP-Selection composition

Selection example LW-DP

1	2	3	4	5	6	7	8	9
MP001	B	J	Z	S	0.6MPa	A	C	E

1. Differential pressure measurement range	R ( )	See Range Range (page 3)	
2. Differential pressure output signal	A	0-10V	
	B	4-20mA	
3. Precision class	J	0.5%	
	K	1.0%	
4. Process connection	U	1/2NPT	
	V	1/4NPT	
	W	M14*1.5	
	X	M20*1.5	
	Y	M27*2	
	Z	G1/2B	
	S	G1/4B	
	T ( )	Other connection specifications	
5. Electrical connection	Y	M12*2 Aviation plug	
	Z	Head outlet (2-5m)	
	S	Hersman joint	
6. Static error	R ( )	Note Static difference	
7. Seal material	A	Fluororubber	
	B	Red copper	
	T ( )	Other materials	
8. Temperature range	C	0...80°C	
	D	-30...100°C	
9. Liquid material	E	304SS	
	F	316L	
	T ( )	Other materials	

## Instructions:

LW-PA universal differential pressure transmitter, differential pressure measurement range is 0~0.1MPa, differential pressure output signal 4-20mA, pressure measurement range is 0~1.0MPa, pressure output signal 4-20mA, accuracy level 0.5%, Process connection G1/2B, electrical connection is Hersman joint, static pressure value is 0.6MPa, seal material is fluoro rubber, temperature range is 0... At 80°C, the liquid material is 304SS.

## Product Certification

Compliance and approval; Rodewieg pressure gauges meet key standards and certifications for process measurement technology; Thus guaranteeing the highest reliability in such Settings;