



Pressure transmitter



# Huba Control

## Relative pressure transmitter Type 526

The compact type 526 pressure transmitter is based upon the well proven ceramic technology developed by Huba Control over 20 years ago.

The pressure transmitter with its large variety of pressure- and electrical connection has also pressure ranges from 100 mbar full scale. These units are available in high quantities for OEM customers with an excellent price to performance ratio.

**Pressure range**  
**0 ... 0.1 – 0.6 bar**

- + Compact and rugged construction
- + Ideal price / performance ratio
- + Pressure ranges from 100 mbar full scale available
- + Large selection of connections available

## Technical overview

### Pressure range

Relative	0 ... 0.1 – 0.6 bar
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### Operating conditions

Medium	Liquids and neutral gases
	FPM -15 ... +85 °C
	EPDM / MVQ -25 ... +85 °C
	NBR -20 ... +85 °C
Temperature	Medium
	Ambient -25 ... +85 °C
	Storage -40 ... +85 °C
Tolerable overload / Rupture pressure	3 bar

### Materials

Plug accommodation	Polyarylamid 50% GF UL 94 V-0
	Stainless steel 1.4404 / AISI 316L
Materials in contact with medium	PVDF
	Sensor Ceramic Al <sub>2</sub> O <sub>3</sub> (96%)
	Sealing material FPM, EPDM, NBR, MVQ

### Electrical overview

3 wire	Output ratiom. 10 ... 90%	Power supply 5 VDC ± 10%	Load >10 kOhm / < 100 nF	Current consumption < 7 mA
Polarity reversal protection	Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.			
Insulation voltage				500 VDC

### Dynamic response

Response time	< 100 ms
Load cycle	< 30 Hz

### Electrical connection

Connector	Protection standard	Protection class
Connector DIN EN 175301-803-A	IP 65	III
Connector DIN EN 175301-803-C (industrial standard 9.4 mm)	IP 65	III
Connector M12x1	IP 67	III

### Pressure connection

Inside thread	G ¼ with O-ring seal FPM (-30 ... +135 °C)
	¼ -18 NPT
Outside thread	G ½ sealed at front
	G ½ sealed at back DIN 3852-E with profile seal FPM (-30 ... +135 °C)
	G ¼ sealed at back DIN 3852-E with profile seal FPM (-30 ... +135 °C)
	G ¼ sealed at front
	G ½ sealed at back and manometer (combi) with profile seal FPM (-30 ... +135 °C)
	G ½ sealed at front

### Installation arrangement

Unrestricted

### Tests / Admissions

Electromagnetic compatibility EAC	CE conformity acc. EN 61326-2-3
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### Weight

~ 90 g

### Packaging (Please state on order)

Single packaging in cardboard	accessories integrated
Multiple packaging in cardboard (25 pcs)	

## Accuracy

Parameter	Adjustment position - vertical, pressure connection downward
Characteristic line incl. thermal characteristic	± (1,8 mbar + 0.2% FS)
Resolution	0.1% FS
Long term stability acc. IEC EN 60770-1	± 0.3% FS
Positional error:	horizontal installation: ~ 0.3% FS
	vertical installation
	Pressure connection upwards: ~ 0.4% FS

			1	2	3	4	5	6	7	8	9	10	11
<b>Order code selection in bar</b>			526.	X	X	X	X	X	X	X	X	X	X
<b>Pressure range <sup>1)</sup></b>	0 ... 0.1 bar		9	2	2								
	0 ... 0.16 bar		9	2	3								
	0 ... 0.2 bar		9	2	4								
	0 ... 0.25 bar		9	2	5								
	0 ... 0.3 bar		9	2	6								
	0 ... 0.4 bar		9	2	7								
	0 ... 0.6 bar		9	2	8								
<b>Sealing material</b>	FPM	Fluoro elastomer				0	0						
	EPDM	Ethylene propylene				1	0						
	NBR	Butadiene acrylonitrile				2	0						
	MVQ	Silicone polymer				3	0						
<b>Output / power supply</b>	ratiom. 10 ... 90%	5VDC ±10%						7					
<b>Electrical connection</b>	Connector	DIN EN 175301-803-A <sup>2)</sup>							1				
		DIN EN 175301-803-C (industrial standard 9.4 mm) <sup>2)</sup>							2				
		M12x1 <sup>2)</sup>							3				
<b>Pressure connection <sup>1)</sup></b>	inside thread	G ¼ with O-ring sealed FPM								1	1	1	
		¼ -18 NPT								3	1	1	
		G ¼ sealed at back DIN 3852-E with profile seal FPM									4	1	1
		G ¼ sealed at front									J	1	2
		G ½ sealed at front									M	1	1
		G ½ sealed at back DIN 3852-E with profile seal FPM									H	1	1
		G ½ sealed at back and manometer with profile seal FPM									8	1	1
		G ½ sealed at front									9	1	
<b>Material pressure connection</b>	PVDF outside thread sealed at front for G ¼, G ½												2
<b>Pressure range variation (optional)</b>	Indicate W and sate range on order (e.g.: W0... + 0.5bar/OUT0.5...4.5V)												W

			1	2	3	4	5	6	7	8	9	10	11
<b>Order code selection in psi</b>			526.	X	X	X	X	X	X	X	X	X	X
<b>Pressure range <sup>1)</sup></b>	0 ... 2 psi		9	B	2								
	0 ... 3 psi		9	B	4								
	0 ... 5 psi		9	B	6								
	0 ... 10 psi		9	B	8								
<b>Sealing material</b>	FPM	Fluoro elastomer				0	0						
	EPDM	Ethylene propylene				1	0						
	NBR	Butadiene acrylonitrile				2	0						
	MVQ	Silicone polymer				3	0						
<b>Output / power supply</b>	ratiom. 10 ... 90%	5VDC ±10%						7					
<b>Electrical connection</b>	Connector	DIN EN 175301-803-A <sup>2)</sup>							1				
		DIN EN 175301-803-C (industrial standard 9.4 mm) <sup>2)</sup>							2				
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		¼ -18 NPT								3	1	1	
		G ¼ sealed at back DIN 3852-E with profile seal FPM									4	1	1
		G ¼ sealed at front									J	1	2
		G ½ sealed at front									M	1	1
		G ½ sealed at back DIN 3852-E with profile seal FPM									H	1	1
		G ½ sealed at back and manometer with profile seal FPM									8	1	1
		G ½ sealed at front									9	1	
<b>Material pressure connection</b>	PVDF outside thread sealed at front for G ¼, G ½												2
<b>Pressure range variation (optional)</b>	Indicate W and sate range on order (e.g.: W0... + 0.4psi/OUT0.5...4.5V)												W

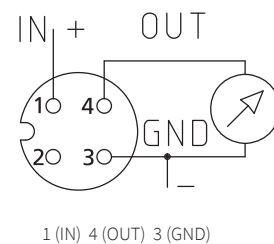
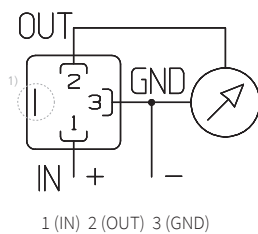
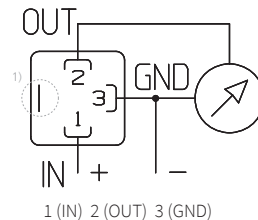
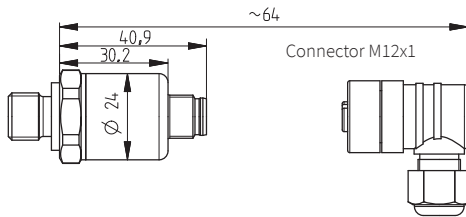
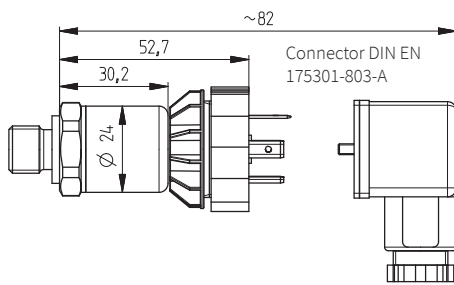
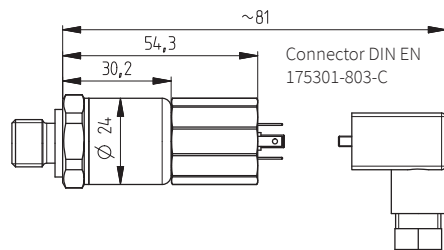
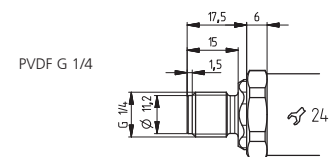
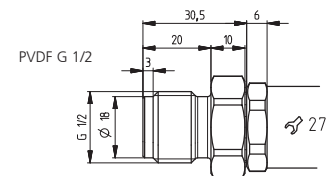
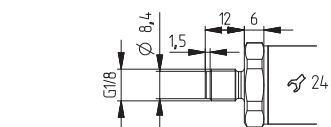
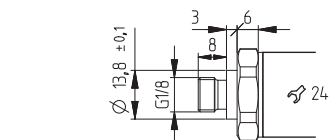
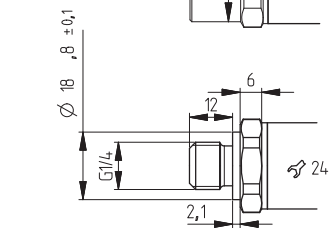
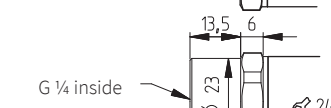
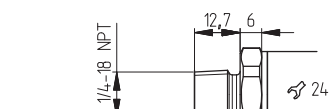
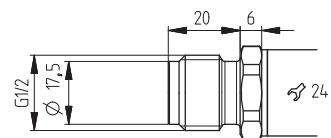
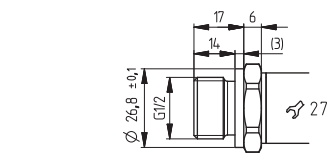
			1	2	3	4	5	6	7	8	9	10	11
<b>Order code selection in MPa</b>			526.	X	X	X	X	X	X	X	X	X	X
<b>Pressure range <sup>1)</sup></b>	0 ... 0.01 MPa		9	G	2								
	0 ... 0.016 MPa		9	G	3								
	0 ... 0.02 MPa		9	G	4								
	0 ... 0.025 MPa		9	G	5								
	0 ... 0.03 MPa		9	G	6								
	0 ... 0.04 MPa		9	G	7								
	0 ... 0.06 MPa		9	G	8								
<b>Sealing material</b>	FPM	Fluoro elastomer				0	0						
	EPDM	Ethylene propylene				1	0						
	NBR	Butadiene acrylonitrile				2	0						
	MVQ	Silicone polymer				3	0						
<b>Output / power supply</b>	ratiom. 10 ... 90%	5VDC ±10%						7					
<b>Electrical connection</b>	Connector	DIN EN 175301-803-A <sup>2)</sup>							1				
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<b>Material pressure connection</b>	PVDF outside thread sealed at front for G ¼, G ½												2
<b>Pressure range variation (optional)</b>	Indicate W and sate range on order (e.g.: W0... + 0.05MPa/OUT0.5...4.5V)												W

<sup>1)</sup> Other pressure ranges and pressure connection on request

<sup>2)</sup> Delivery without female connector

Accessories <i>(supplied loose)</i>	Order number
Female connector DIN EN 175301-803-A with seal	103510
Female connector DIN EN 175301-803-C with seal	104244
Corner-wire box for connector M12x1	106975
Calibration certificate	104551

## Dimensions in mm / Electrical connections



<sup>1)</sup> Not connected with transmitter housing



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