

# Relative pressure transmitter Typ 526

Pressure range  
0 ... 0.1 – 0.6 bar



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.

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

## Technical overview

<b>Pressure range</b>				
Relative		0 ... 0.1 – 0.6 bar		
<b>Operating conditions</b>				
Medium		Liquids and neutral gases		
		FPM	-15 ... +85 °C	
		EPDM / MVQ	-25 ... +85 °C	
		NBR	-20 ... +85 °C	
Temperature		Ambient	-25 ... +85 °C	
		Storage	-40 ... +85 °C	
Tolerable overload / Rupture pressure		3 bar		
<b>Materials</b>				
Plug accommodation		Polyarylamid 50% GF UL 94 V-0		
		Stainless steel 1.4404 / AISI 316L		
		PVDF		
Materials in contact with medium		Ceramic Al <sub>2</sub> O <sub>3</sub> (96%)		
	Pressure connection	FPM, EPDM, NBR, MVQ		
	Sensor			
	Sealing material			
<b>Electrical overview</b>				
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			
<b>Protection class</b>				
Protection class III				
<b>Dynamic response</b>				
Response time	< 100 ms			
Load cycle	< 30 Hz			
<b>Protection standard</b>				
DIN connector EN 175301-803				IP 65
Connector M12x1				IP 67
<b>Electrical connection</b>				
Connector DIN EN 175301-803-A				
Connector DIN EN 175301-803-C (industrial standard 9.4 mm)				
Connector M12x1				
<b>Pressure connection</b>				
Inside thread	G ¼ with O-ring seal FPM (-30 ... +135 °C)			
	¼ -18 NPT			
	G ½ sealed at front			
	G ½ sealed at back DIN 3852-E with profile seal FPM (-30 ... +135 °C)			
Outside thread	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			
<b>Installation arrangement</b>				
Unrestricted				
<b>Tests / Admissions</b>				
Electromagnetic compatibility	CE conformity acc. EN 61326-2-3			
<b>Weight</b>				
~ 90 g				
<b>Packaging (Please state on order)</b>				
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

Order code selection in bar			1	2	3	4	5	6	7	8	9	10	11	
			526.	X	X	X	X	X	X	X	X	X	X	
Pressure range <sup>1)</sup>	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									
Sealing material	FPM	Fluoro elastomer				0	0							
	EPDM	Ethylene propylene				1	0							
	NBR	Butadiene acrylonitrile				2	0							
	MVQ	Silicone polymer				3	0							
Output / power supply	ratiom. 10 ... 90%	5VDC ±10%						7						
Electrical connection	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					
Pressure connection <sup>1)</sup>	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	
	outside thread	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		
Material	Stainless steel 1.4404 / AISI 316 L											1		
Pressure connection	PVDF outside thread sealed at front for G ¼, G ½											2		
Pressure range variation (optional)	Indicate W and sate range on order (e.g.: W0... + 0.5bar/OUT0.5...4.5V)												W	

Order code selection in psi			1	2	3	4	5	6	7	8	9	10	11	
			526.	X	X	X	X	X	X	X	X	X	X	
Pressure range <sup>1)</sup>	0 ... 2 psi		9	B	2									
	0 ... 3 psi		9	B	4									
	0 ... 5 psi		9	B	6									
	0 ... 10 psi		9	B	8									
Sealing material	FPM	Fluoro elastomer				0	0							
	EPDM	Ethylene propylene				1	0							
	NBR	Butadiene acrylonitrile				2	0							
	MVQ	Silicone polymer				3	0							
Output / power supply	ratiom. 10 ... 90%	5VDC ±10%						7						
Electrical connection	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					
Pressure connection <sup>1)</sup>	Inside thread	G ¼ with O-Ring seal 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	
	Outside thread	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		
Material	Stainless steel 1.4404 / AISI 316 L											1		
Pressure connection	PVDF outside thread sealed at front for G ¼, G ½											2		
Pressure range variation (optional)	Indicate W and sate range on order (e.g.: W0... + 0.4psi/OUT0.5...4.5V)												W	

Order code selection in MPa			1	2	3	4	5	6	7	8	9	10	11	
			526.	X	X	X	X	X	X	X	X	X	X	
Pressure range <sup>1)</sup>	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									
Sealing material	FPM	Fluoro elastomer				0	0							
	EPDM	Ethylene propylene				1	0							
	NBR	Butadiene acrylonitrile				2	0							
	MVQ	Silicone polymer				3	0							
Output / power supply	ratiom. 10 ... 90%	5VDC ±10%						7						
Electrical connection	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					
Pressure connection <sup>1)</sup>	Inside thread	G ¼ with O-ring seal 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	
	Outside thread	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		
Material	Stainless steel 1.4404 / AISI 316 L											1		
Pressure connection	PVDF outside thread sealed at front for G ¼, G ½											2		
Pressure range variation (optional)	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

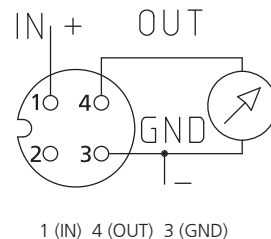
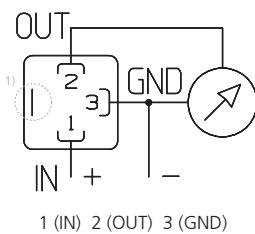
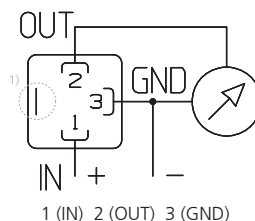
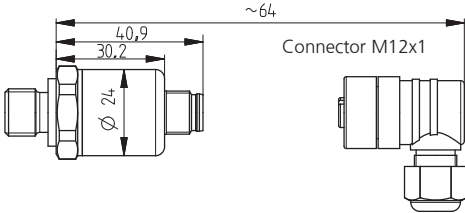
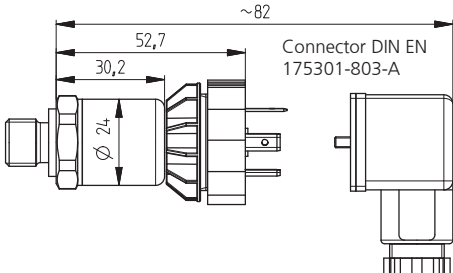
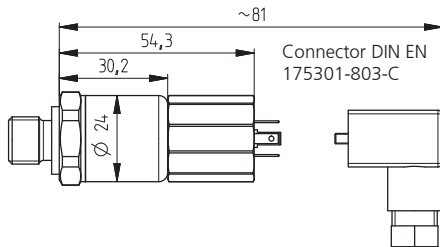
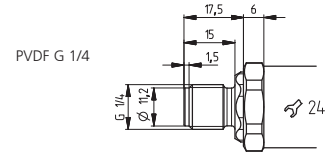
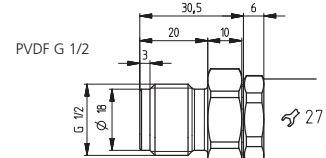
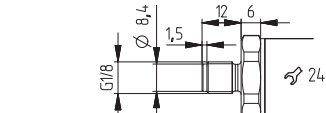
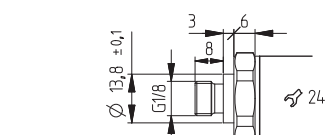
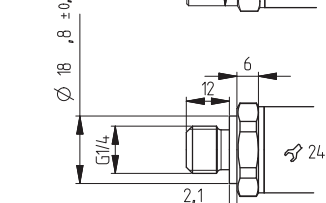
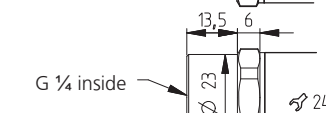
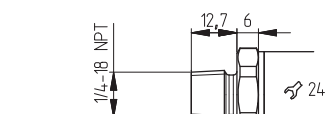
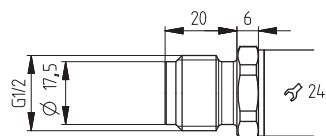
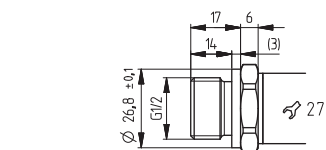
<sup>2)</sup> Delivery without female connector

# Accessories

Female connector DIN EN 175301-803-A with seal  
 Female connector DIN EN 175301-803-C with seal  
 Corner-wire box for connector M12x1  
 Calibration certificate

Order number  
 103510  
 104244  
 106975  
 104551

# Dimensions in mm / Electrical connections



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