

# Relative pressure transmitter type 520



Pressure range

-1 ... 9 bar / 0 ... 2.5 – 1000 bar



The compact type 520 pressure transmitter is based upon the Huba Control developed thick film technology where the pressure measuring cell is fully welded. This transmitter meets the high burst protection demands and is suitable for the use in all types of refrigerants including ammonia.

- Compact, rugged construction
- Welded without sealing parts, no elastomer seals
- Large selection of connections available.
- Saving time by quick cable mounting by the customer with swift connector

## Technical overview

<b>Pressure range</b>			
Relative		-1 ... 9 bar / 0 ... 2.5 – 1000 bar	
<b>Operating conditions</b>			
Medium		Liquids, gases and refrigerants (incl. ammonia)	
Temperature		Medium -40 ... +135 °C (Ⓢ) -30 ... +120 °C	
		Ambient -30 ... +85 °C (Ⓢ) -25 ... +85 °C	
		Storage -50 ... +100 °C	
Tolerable overload		≤ 6 bar 5 x fs	
		> 6 bar 3 x fs (max. 1500 bar)	
Rupture pressure		≤ 6 bar 10 x fs	
		> 6 bar 6 x fs (max. 2500 bar)	
<b>Materials</b>			
Cover		Stainless steel 1.4404 / AISI 316L (inside thread Schrader 1.4305 / AISI 303 only)	
Plug accommodation		Polyarylamide 50% GF UL 94 V-0	
Materials in contact with medium		Pressure connection	Stainless steel 1.4404 / AISI 316L (inside thread Schrader 1.4305 / AISI 303 only)
		Sensor	Stainless steel
<b>Electrical overview</b>			
2 wire	Output	Power supply	Load
	4 ... 20 mA	7 ... 33 VDC	< $\frac{\text{supply voltage} - 7V}{0.02 A}$ [Ohm]
	4 ... 20 mA	10 ... 30 VDC	< 23 mA
3 wire	0 ... 5 V	7 ... 33 VDC	< $\frac{\text{supply voltage} - 10V}{0.02 A}$ [Ohm]
	1 ... 6 V	8 ... 33 VDC	> 10 kOhm / < 100 nF
	0 ... 10 V	12 ... 33 VDC	> 10 kOhm / < 100 nF
	0 ... 10 V	12 ... 33 VDC / 24 VAC ± 15%	> 10 kOhm / < 100 nF
	ration. 10 ... 90%	5 VDC ± 10%	> 10 kOhm / < 100 nF
	ration. 10 ... 90%	5 VDC ± 10%	> 10 kOhm / < 100 nF
Polarity reversal protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
Insulation voltage		standard 500 VDC	
<b>Protection class</b>			
Protection class III			
<b>Dynamic response</b>			
Response time		< 2 ms, 1 ms typ.	
Load cycle		< 100 Hz	
<b>Protection standard</b>			
Connector DIN EN 175301-803, Braids		IP 65	
Connector RAST 2.5		IP 00	
Swift connector, Metri Pack, Connector M12x1		IP 67	
<b>Electrical connection</b>			
Swift connector with or without cable 1.5 / 2.0 / 3.0 / 5.0 m (PVC spec.)			
Connector DIN EN 175301-803-A			
Connector DIN EN 175301-803-C (industrial standard 9.4 mm)			
Metri Pack Serie 150			
Connector M12x1			
Braids			
Connector RAST 2.5 (3 wire only)			
<b>Pressure connection</b>			
Inside thread	1/16 - 20 UNF	without or with Schrader	
	1/2 - 14 NPT	(≤ 60 bar)	
	G 1/4	with O-Ring seal FPM (-30 ... +135 °C)	
Outside thread	1/16 - 20 UNF	sealing cone	
	1/4 - 18 NPT		
	1/16 - 20 UNF	sealed at back SAE 4 with O-Ring seal FPM (-20 ... +135 °C)	
	G 1/4	sealed at back DIN 3852-E with profile seal ring in FPM (-30 ... +135 °C)	
	G 1/4	sealed at back and manometer (combi) with profile seal ring in FPM (-30 ... +135 °C) (≤ 60 bar)	
	R 1/4	EN 10226	
	G 1/2	sealed at back and manometer (combi) with profile seal ring in FPM (-30 ... +135 °C)	
	1/8 - 27 NPT	(≤ 60 bar)	
	G 1/8	sealed at front (≤ 60 bar)	
	G 1/8	sealed at back DIN 3852-E with profile seal ring in FPM (-30 ... +135 °C) (> 60 bar - without UL and ATEX certificate)	
M10x1		sealed at back DIN 3852-E with Profile seal ring in FPM (-30 ... +135 °C) (≤ 60 bar)	
M20x1.5		sealed at front and manometer (combi)	
G 1/2, G 1/4		sealed at front	
<b>Installation arrangement</b>			
Unrestricted			
<b>Tests / Admissions</b>			
Electromagnetic compatibility		CE conformity acc. EN 61326-2-3	
Enhanced EMC protection		EN 50121-3-2	
Shock acc. IEC 68-2-27		100 g, 11 ms half sine wave, all 6 directions, free fall from 1 m on concrete (6x)	
Constant shock acc. IEC 68-2-29		40 g for 6 ms, 1000x all 3 directions	
Vibration acc. IEC 68-2-6		20 g, 15 ... 2000 Hz, 15 ... 25 Hz with amplitude ± 15 mm, 1 Octave/min. all 3 directions, 50 constant load	
UL		ANSI/UL 61010-1 acc. E325110	
Drinking water approval		NSF/ANSI 61/372 acc. MH60087	
<b>Protection against explosion (Ⓢ)</b>			
Intrinsic safety "i"		ration. 10 ... 90%	4 ... 20 mA
EC type examination certificate		Ex II 1/2 G Ex ia IIC T4 Ga/Gb	Ex II 1/2 G Ex ia IIC T4 Ga/Gb
Connection to certified intrinsically safe resistive circuits with maximum values		Ex II 1/2 D Ex ia IIC T125°C Da/Db	Ex II 1/2 D Ex ia IIC T125°C Da/Db
Effective internal inductance and capacitance for versions with plugs complying with EN 175301-803-A or M12x1		SEV 15 ATEX 0173	SEV 10 ATEX 0145
		Ui ≤ 15 VDC; li ≤ 200 mA; Pi ≤ 750 mW	Ui ≤ 30 VDC; li ≤ 100 mA; Pi ≤ 750 mW
		Li = 0 nH; Ci ≤ 150 nF	Li = 0 nH; Ci = 0 nF
<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	Unit	
Characteristic line <sup>1)</sup>	% fs	± 0.3
Resolution	% fs	0.1
Thermal characteristic <sup>2)</sup>	max. % fs/10K	± 0.2
Long term stability acc. IEC EN 60770-1	max. % fs	± 0.25

Test conditions: 25 °C, 45% RH, power supply 24 VDC

Order code selection table in bar		1	2	3	4	5	6	7	8	9	10	11	
		520.	X	X	X	X	X	X	X	X	X	X	
Pressure range <sup>3)</sup>	-1 ... 9 bar	9	0	6									
	0 ... 2.5 bar	9	1	4									
	0 ... 4 bar	9	1	5									
	0 ... 6 bar	9	1	7									
	0 ... 10 bar	9	3	0									
	0 ... 16 bar	9	3	1									
	0 ... 25 bar	9	3	2									
	0 ... 40 bar	9	3	3									
	0 ... 60 bar	9	4	0									
	0 ... 100 bar	9	4	1									
	0 ... 160 bar	9	4	2									
	0 ... 250 bar	9	4	3									
	0 ... 400 bar	9	5	4									
0 ... 600 bar	9	5	5										
0 ... 1000 bar	9	5	7										
Application	standard					S	0						
	for oxygen applications					S	1			0			
	with drinking water approval NSF 61					S	4			0	1		
Output / power supply	0 ... 5 V	7 ... 33 VDC						1					
	1 ... 6 V	8 ... 33 VDC						6					
		12 ... 33 VDC						2					
	0 ... 10 V	12 ... 33 VDC Enhanced EMC protection						C	1,2,3				
		12 ... 33 VDC / 24 VAC ±15% (not possible with M12x1, metri Pack, RAST, braids)						8					
	ration. 10 ... 90%	5VDC ±10%						7					
		5VDC ±10% Ex protection					0,4	9	1,3		1		
Electrical connection	Connector <sup>4)</sup>	7 ... 33 VDC						3					
		7 ... 33 VDC Enhanced EMC protection (not possible with Braids)						A					
		10 ... 30 VDC Ex protection					0,4	4	1,3		1		
		DIN EN 175301-803-A								1			
		DIN EN 175301-803-C (industrial standard 9.4 mm)								2			
	Braids	M12x1 2w: IN=1 / OUT=3 3w: IN=1 / OUT=4 / GND=3								3			
		M12x1 2w: IN=1 / OUT=4 3w: IN=1 / OUT=3 / GND=4								M			
		M12x1 2w: IN=1 / OUT=2 3w: IN=1 / OUT=2 / GND=3								P			
		RAST 2.5					0,4	7	4				
		Metri Pack Serie 150 <sup>5)</sup>					0,4		5				
Swift connector	80 ±10 mm								6				
	290 ±10 mm								7				
	480 ±10 mm								8				
	730 ±10 mm								9				
	without cable								0				
Pressure connection <sup>3)</sup>	Inside thread	with cable 1.5 m							L				
		with cable 2.0 m							N				
		with cable 3.0 m								Q			
		with cable 5.0 m								R			
		with cable 5.0 m											
Pressure connection <sup>3)</sup>	Inside thread	2/16-20 UNF sealing cone with schrader				0,4				0	0	N	
		2/16-20 UNF sealing cone								K		1	
		1/2 -14 NPT <sup>6)</sup>								D		1	
		G 1/4 with O-Ring seal FPM									1	1	
		G 1/4 with O-Ring seal FPM									1	1	
	Outside thread	2/16-20 UNF sealing cone									2		1
		1/4 -18 NPT									3		1
		G 1/4 sealed at back DIN 3852-E with profile seal ring in FPM									4		1
		G 1/4 sealed at back and manometer with profile seal ring in FPM									5	0	1
		R 1/4 acc. to EN 10226									7		1
		G 1/2 sealed at back and manometer with profile seal ring in FPM					0,1				8		1
		2/16-20 UNF sealed at back SAE 4 with O-Ring seal FPM									G		1
		1/8 - 27 NPT <sup>6)</sup>									A		1
		G 3/8 sealed at front <sup>6)</sup>									M		1
		G 1/2 sealed at back DIN 3852-E with Profile seal ring in FPM <sup>7)</sup>					0,1					H	1
M10x1 sealed at back DIN 3852-E with profile seal ring in FPM <sup>6)</sup>					0,1					F	1		
M20x1.5 sealed at front and manometer (combi)										E	1		
G 1/4 sealed at front										J	1		
G 1/2 sealed at front										9	1		
Pressure orifice	without (inclusive pressure tip orifice from 100 bar on)										0		
	with										2		
Material	Stainless steel 1.4305 / AISI 303											N	
pressure connection	Stainless steel 1.4404 / AISI 316L											1	
Pressure range variation (optional)	Indicate W and state range on order (e.g.: W0... + 3bar/OUT0...5V)											W	

<sup>1)</sup> typ. ; max. 0.5% fs (incl. zero point, full scale, linearity, hysteresis and repeatability)

<sup>2)</sup> -15 ... 85 °C

<sup>3)</sup> Other pressure ranges or pressure connections on request

<sup>4)</sup> Delivery without female connector

<sup>5)</sup> For pressure ranges ≤ 10 bar only possible if deaeration through the cable is assured

<sup>6)</sup> (< 60 bar)

<sup>7)</sup> Rupture pressure 1000 bar

Order code selection table in psi		1	2	3	4	5	6	7	8	9	10	11	
		520.	X	X	X	X	X	X	X	X	X	X	
Pressure range <sup>1)</sup>	-15 ... 130 psi	9	A	6									
	0 ... 30 psi	9	B	4									
	0 ... 60 psi	9	B	4									
	0 ... 100 psi	9	B	7									
	0 ... 200 psi	9	C	1									
	0 ... 300 psi	9	C	2									
	0 ... 500 psi	9	C	3									
	0 ... 750 psi	9	D	0									
	0 ... 1000 psi	9	D	1									
	0 ... 2000 psi	9	D	2									
	0 ... 3000 psi	9	D	3									
	0 ... 5000 psi	9	E	4									
	0 ... 7500 psi	9	E	5									
0 ... 14500 psi	9	E	7										
Application	standard					S	0						
	for oxygen applications					S	1			0			
	with drinking water approval NSF 61					S	4			0	1		
Output / power supply	0 ... 5 V								1				
	1 ... 6 V								6				
									2				
	0 ... 10 V								C	1,2,3			
									8				
									7				
	ration. 10 ... 90%						0,4	9	1,3		1		
								3					
	4 ... 20 mA							A					
							0,4	4	1,3		1		
Electrical connection	Connector <sup>2)</sup>	DIN EN 175301-803-A								1			
		DIN EN 175301-803-C (industrial standard 9.4 mm)								2			
		M12x1 2w: IN=1 / OUT=3 3w: IN=1 / OUT=4 / GND=3								3			
		M12x1 2w: IN=1 / OUT=4 3w: IN=1 / OUT=3 / GND=4								M			
		M12x1 2w: IN=1 / OUT=2 3w: IN=1 / OUT=2 / GND=3								P			
		RAST 2.5						0,4	7	4			
	Braids	Metri Pack Serie 150 <sup>3)</sup>						0,4		5			
		80 ±10 mm								6			
		290 ±10 mm								7			
		480 ±10 mm								8			
		730 ±10 mm								9			
	Swift connector	without cable								0			
		with cable 1.5 m								L			
with cable 2.0 m									N				
with cable 3.0 m									Q				
with cable 5.0 m									R				
Pressure connection <sup>1)</sup>	Inside thread	7/16-20 UNF sealing cone with schrader					0,4			0	0	N	
		7/16-20 UNF sealing cone								K		1	
		1/2 -14 NPT <sup>4)</sup>									D		1
		G 1/4 with O-Ring seal FPM									1		1
	Outside thread	7/16-20 UNF sealing cone									2		1
		1/4 -18 NPT									3		1
		G 1/4 sealed at back DIN 3852-E with profile seal ring in FPM									4		1
		G 1/4 sealed at back and manometer with profile seal ring in FPM									5	0	1
		R 1/4 acc. to EN 10226									7		1
		G 1/2 sealed at back and manometer with profile seal ring in FPM						0,1			8		1
		7/16-20 UNF sealed at back SAE 4 with O-Ring seal FPM									G		1
		1/8 - 27 NPT <sup>4)</sup>									A		1
		G 1/8 sealed at front <sup>4)</sup>									M		1
		G 1/8 sealed at back DIN 3852-E with Profile seal ring in FPM <sup>5)</sup>						0,1			H		1
		M10x1 sealed at back DIN 3852-E with profile seal ring in FPM <sup>4)</sup>						0,1			F		1
		M20x1,5 sealed at front and manometer (combi)									E		1
G 1/4 sealed at front									J		1		
G 1/2 sealed at front									9		1		
Pressure orifice	without (inclusive pressure tip orifice from 2000 psi on)									0			
	with									2			
Material	Stainless steel 1.4305 / AISI 303											N	
pressure connection	Stainless steel 1.4404 / AISI 316L											1	
Pressure range variation (optional)	Indicate W and state range on order (e.g.: W0... + 400psi/OUT0...5V)											W	

## Accessories

	Order number
Swift connector	117312
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
Corner-wire box for connector M12x1 with cable 2.0 m	114604
Straight-wire box for connector M12x1	114570
Straight-wire box for connector M12x1 with cable 2.0 m	114605
Mounting bracket with screw	118716
Calibration certificate (not possible with pressure range 0 ... 1000 bar)	104551

<sup>1)</sup> Other pressure ranges or pressure connections on request  
<sup>4)</sup> (≤ 870 psi)

<sup>2)</sup> Delivery without female connector  
<sup>5)</sup> Rupture pressure 14500 psi

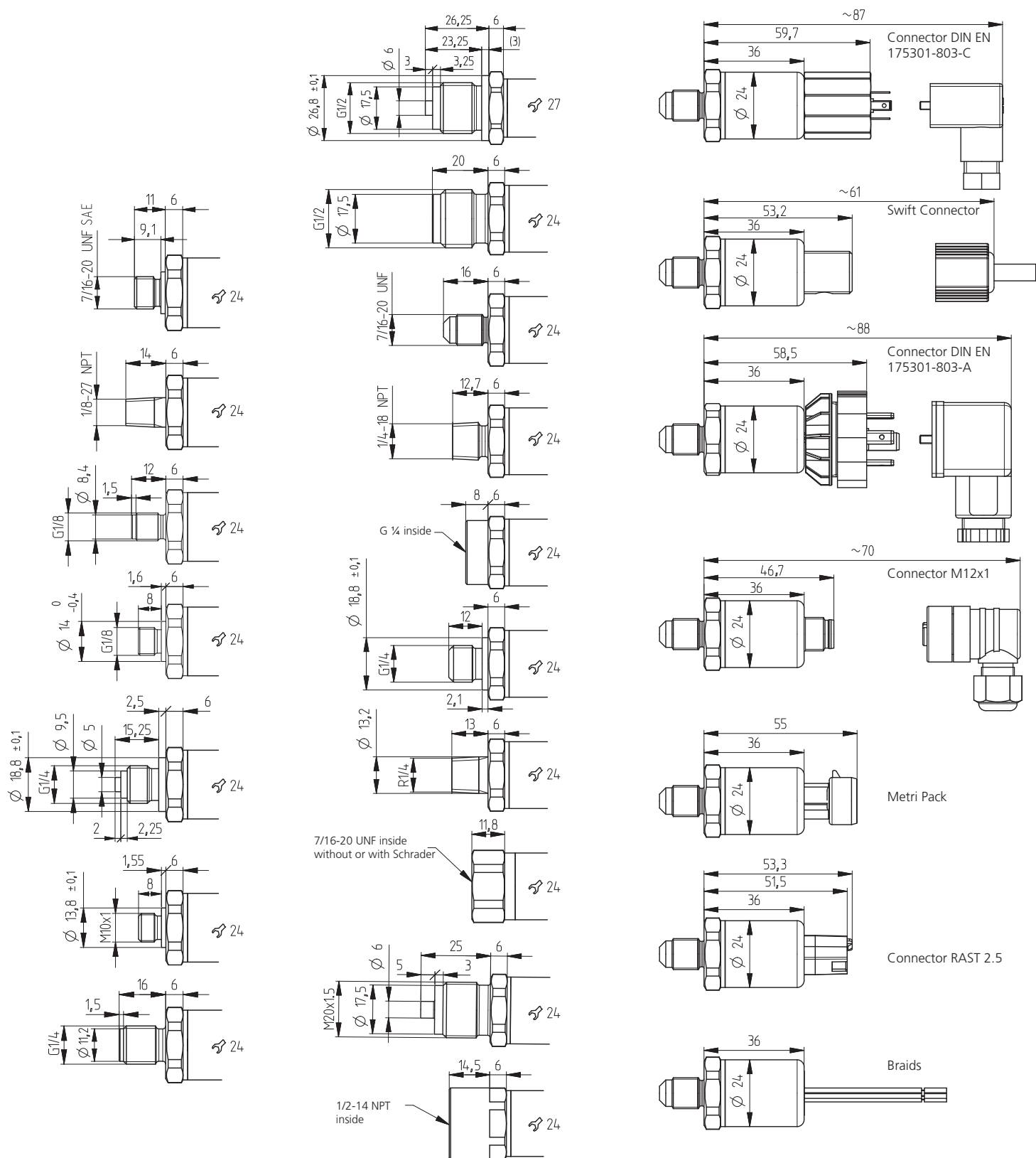
<sup>3)</sup> For pressure ranges ≤ 1 MPa only possible if deaeration through the cable is assured

		1	2	3	4	5	6	7	8	9	10	11		
Order code selection table in MPa		520. X X X X X X X X X X X X												
Pressure range <sup>1)</sup>	-0.1 ... 0.9 MPa	9	F	6										
	0 ... 0.25 MPa	9	G	4										
	0 ... 0.4 MPa	9	G	5										
	0 ... 0.6 MPa	9	G	7										
	0 ... 1 MPa	9	H	0										
	0 ... 1.6 MPa	9	H	1										
	0 ... 2.5 MPa	9	H	2										
	0 ... 4 MPa	9	H	3										
	0 ... 6 MPa	9	K	0										
	0 ... 10 MPa	9	K	1										
	0 ... 16 MPa	9	K	2										
	0 ... 25 MPa	9	K	3										
	0 ... 40 MPa	9	L	4										
	0 ... 60 MPa	9	L	5										
0 ... 100 MPa	9	L	7											
Application	standard					S	0							
	for oxygen applications					S	1				0			
	with drinking water approval NSF 61					S	4				0	1		
Output / power supply	0 ... 5 V								1					
	1 ... 6 V								6					
									2					
	0 ... 10 V								C	1,2,3				
										8				
	ration. 10 ... 90%								7					
								0,4	9	1,3		1		
4 ... 20 mA									3					
									A					
								0,4	4	1,3		1		
Electrical connection	Connector <sup>2)</sup>	DIN EN 175301-803-A									1			
		DIN EN 175301-803-C (industrial standard 9.4 mm)										2		
		M12x1 2w: IN=1 / OUT=3 3w: IN=1 / OUT=4 / GND=3											3	
		M12x1 2w: IN=1 / OUT=4 3w: IN=1 / OUT=3 / GND=4											M	
		M12x1 2w: IN=1 / OUT=2 3w: IN=1 / OUT=2 / GND=3											P	
		RAST 2.5						0,4	7			4		
	Braids	Metri Pack Serie 150 <sup>3)</sup>						0,4				5		
		_80 ±10 mm										6		
		290 ±10 mm										7		
		480 ±10 mm										8		
	Swift connector	730 ±10 mm										9		
		without cable										0		
		with cable 1.5 m										L		
		with cable 2.0 m										N		
with cable 3.0 m											Q			
Pressure connection <sup>1)</sup>	Inside thread	with cable 5.0 m									R			
		<sup>7</sup> / <sub>16</sub> -20 UNF sealing cone with schrader					0,4				0	0	N	
		<sup>7</sup> / <sub>16</sub> -20 UNF sealing cone										K	1	
		<sup>1</sup> / <sub>2</sub> -14 NPT <sup>4)</sup>										D	1	
		G <sup>1</sup> / <sub>4</sub> with O-Ring seal FPM										1	1	
		<sup>7</sup> / <sub>16</sub> -20 UNF sealing cone										2	1	
	Outside thread	<sup>1</sup> / <sub>4</sub> -18 NPT										3	1	
		G <sup>1</sup> / <sub>4</sub> sealed at back DIN 3852-E with profile seal ring in FPM										4	1	
		G <sup>1</sup> / <sub>4</sub> sealed at back and manometer with profile seal ring in FPM										5	0	1
		R <sup>1</sup> / <sub>4</sub> acc. to EN 10226										7	1	
		G <sup>1</sup> / <sub>2</sub> sealed at back and manometer with profile seal ring in FPM						0,1				8	1	
		<sup>7</sup> / <sub>16</sub> -20 UNF sealed at back SAE 4 with O-Ring seal FPM										G	1	
		<sup>1</sup> / <sub>8</sub> -27 NPT <sup>4)</sup>										A	1	
		G <sup>1</sup> / <sub>8</sub> sealed at front <sup>4)</sup>										M	1	
		G <sup>1</sup> / <sub>8</sub> sealed at back DIN 3852-E with Profile seal ring in FPM <sup>5)</sup>						0,1				H	1	
		M10x1 sealed at back DIN 3852-E with profile seal ring in FPM <sup>4)</sup>						0,1				F	1	
		M20x1.5 sealed at front and manometer (combi)										E	1	
		G <sup>1</sup> / <sub>4</sub> sealed at front										J	1	
G <sup>1</sup> / <sub>2</sub> sealed at front										9	1			
Pressure orifice	without (inclusive pressure tip orifice from 10 MPa on)										0			
	with										2			
Material	Stainless steel 1.4305 / AISI 303											N		
pressure connection	Stainless steel 1.4404 / AISI 316L											1		
Pressure range variation (optional)	Indicate W and state range on order (e.g.: W0... + 0.3MPa/OUT0...5V)											W		

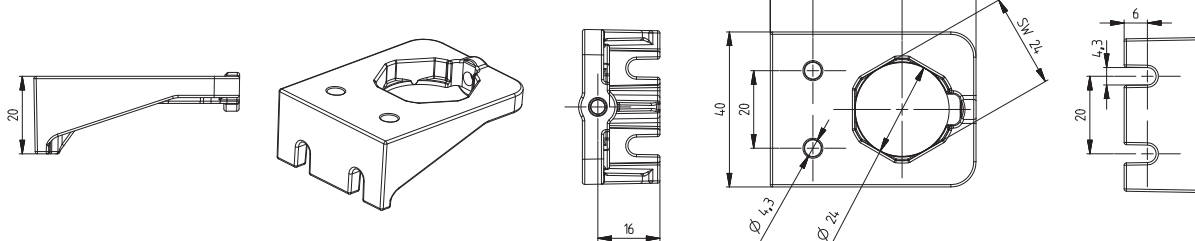
<sup>1)</sup> Other pressure ranges or pressure connections on request  
<sup>4)</sup> (≤ 6 MPa)

<sup>2)</sup> Delivery without female connector  
<sup>5)</sup> Rupture pressure: 100 MPa

<sup>3)</sup> For pressure ranges ≤ 1 MPa only possible if deaeration through the cable is assured

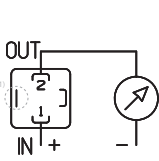


Mounting bracket



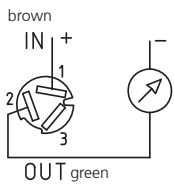
## 2 wire

Connector DIN  
EN 175301-803-A or C



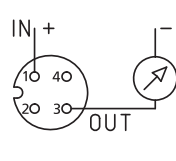
1 (IN) 2 (OUT)

Swift connector



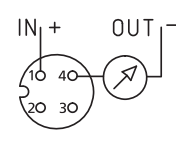
1 (IN) 2 (OUT)

Connector M12x1



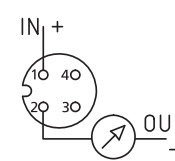
1 (IN) 3 (OUT)

Connector M12x1



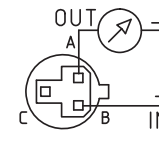
1 (IN) 4 (OUT)

Connector M12x1



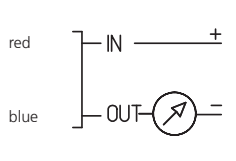
1 (IN) 2 (OUT)

Metri Pack Serie 150



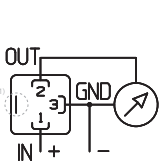
B (IN) A (OUT)

Braids



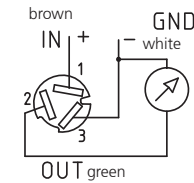
## 3 wire

Connector DIN  
EN 175301-803-A or C



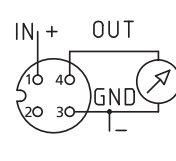
1 (IN) 2 (OUT) 3 (GND)

Swift connector



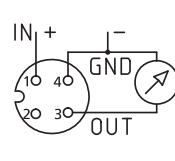
1 (IN) 2 (OUT) 3 (GND)

Connector M12x1



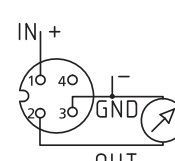
1 (IN) 4 (OUT) 3 (GND)

Connector M12x1



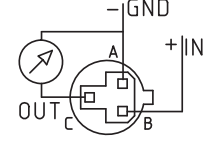
1 (IN) 3 (OUT) 4 (GND)

Connector M12x1



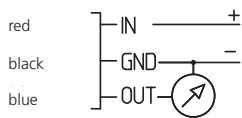
1 (IN) 2 (OUT) 3 (GND)

Metri Pack Serie 150

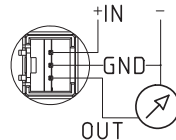


B (IN) C (OUT) A (GND)

Braids

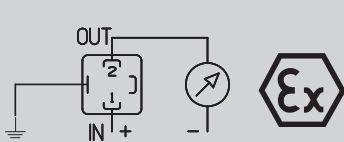


Connector RAST 2.5



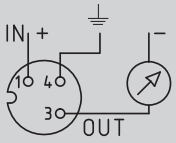
Device design with explosion protection: 4 ... 20 mA  
The grounding connection is conductively connected to the transmitter housing.

Connector DIN  
EN 175301-803-A



1 (IN) 2 (OUT) ↓

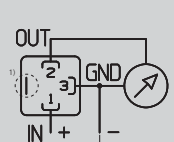
Connector M12x1



1 (IN) 3 (OUT) 4 (↓)

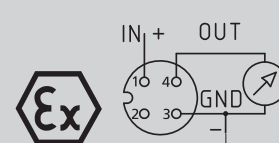
Device design with explosion protection: ratiom. 10 ... 90%  
The electronic GND is connected with a 1MΩ resistor to the transmitter housing.

Connector DIN  
EN 175301-803-A



1 (IN) 2 (OUT) 3 (GND)

Connector M12x1



1 (IN) 3 (GND) 4 (OUT)

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

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