Huba Control

FOR FINE PRESSURE AND FLOW MEASUREMENT

Relative and absolute pressure transmitter type 528

Pressure range
-1 ... 0 – 60 bar

The compact type 528 pressure transmitter is based upon the well proven ceramic technology developed by Huba Control over 20 years ago.

These transmitters are suitable for applications across a broad spectrum of industries.

- Compact, rugged construction
- Negligible temperature influence on accuracy
- Saving time by quick cable mounting by the customer with swift connector
- Large selection of connections available

Technical overview

Pressure range

Relative	-1 ... 0 – 60 bar
Absolute	0 ... 1 – 16 bar

Operating conditions

Medium				Liquids and gases
Temperature	Medium	FPM	-15 ... +125 °C	(Ex) -15 ... +120 °C)
		EPDM	-40 ... +125 °C	(Ex) -30 ... +120 °C)
		NBR	-20 ... +100 °C	
		MVQ	-40 ... +125 °C	(Ex) -30 ... +120 °C)
		FPM	-40 ... +125 °C	(Ex) -30 ... +120 °C)
	Ambient		-30 ... +85 °C	(Ex) -25 ... +85 °C)
	Storage		-50 ... +100 °C	
Tolerable overload / Rupture pressure		≤ 4 bar	3.0 x fs	
		> 4 bar	2.5 x fs	

Materials

Cover		Stainless steel 1.4404 / AISI 316L
Plug accommodation		Polyarylamide 50% GF UL 94 V-0
Materials in contact with medium	Pressure connection	Stainless steel 1.4404 / AISI 316L
		PVDF
	Sensor	Ceramic Al_2O_3 (96%)
	Sealing material	FPM, EPDM, NBR, MVQ

Electrical overview

	Output	Power supply	Load	Current consumption
2 wire	4 ... 20 mA	7 ... 33 VDC	$< \frac{\text{supply voltage - 7 V}}{0.02\ A}$ [Ohm]	< 23 mA
	(Ex) 4 ... 20 mA	10 ... 30 VDC	$< \frac{\text{supply voltage - 10 V}}{0.02\ A}$ [Ohm]	< 23 mA
3 wire	0 ... 5 V	7 ... 33 VDC	>10 kOhm / < 100 nF	< 7 mA
	1 ... 6 V	8 ... 33 VDC	>10 kOhm / < 100 nF	< 7 mA
	0 ... 10 V	12 ... 33 VDC	>10 kOhm / < 100 nF	< 7 mA
	0 ... 10 V	12 ... 33 VDC / 24 VAC ± 15%	>10 kOhm / < 100 nF	< 7 mA
	ratiom. 10 ... 90%	5 VDC ± 10%	>10 kOhm / < 100 nF	< 7 mA
	(Ex) ratiom. 10 ... 90%	5 VDC ± 10%	>10 kOhm / < 100 nF	< 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

Protection class

Protection class III

Dynamic response

Response time	< 2 ms, 1 ms typ.
Load cycle	< 100 Hz

Protection standard

Connector DIN EN 175301-803, Braids	IP 65
Connector RAST 2.5	IP 00
Swift connector, Metri Pack, Connector M12x1	IP 67

Electrical connection

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)

Pressure connection

Inside thread	7/16 - 20 UNF	
	½ -14 NPT	
	G ¼	with O-Ring seal FPM spec. (-30 ... +135 °C)
Outside thread	7/16 - 20 UNF	sealed at front or sealing cone
	¼ -18 NPT	
	G ¼, G ½, G ⅛	sealed at back DIN 3852-E with Profile seal ring in FPM spec. (-30 ... +135 °C)
	G ¼, G ½	sealed at back and manometer (combi) with Profile seal ring in FPM spec. (-30 ... +135 °C)
	R ¼	EN 10226
	⅛ - 27 NPT	
	G ⅛	sealed at front or sealed at back and manometer (combi) with Profile seal ring in FPM spec. (-30 ... +135 °C)
	M10x1	sealed at back DIN 3852-E with Profile seal ring in FPM spec. (-30 ... +135 °C)
	M20x1.5	
	G ¼, G ½	sealed at front

Installation arrangement

Unrestricted

Tests / Admissions

Electromagnetic compatibility	CE conformity acc. EN 61326-2-3
Raised noise resistantcy	EN 50121-2-3
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

Protection against explosion (Ex)

	ratiom. 10 ... 90%	4 ... 20 mA
Intrinsic safety «i»	Ex II 1/2 G Ex ia IIC T4 Ga/Gb	Ex II 1/2 G Ex ia IIC T4 Ga/Gb
	Ex II 1/2 D Ex ia IIIC T125°C Da/Db	Ex II 1/2 D Ex ia IIIC T125°C Da/Db
EC type examination certificate	SEV 15 ATEX 0173	SEV 10 ATEX 0145
Connection to certified intrinsically safe resistive circuits with maximum values	Ui ≤ 15 VDC; Ii ≤ 200 mA; Pi ≤ 750 mW	Ui ≤ 30 VDC; Ii ≤ 100 mA; Pi ≤ 750 mW
Effective internal inductance and capacitance for versions with plugs complying with EN 175301-803-A or M12x1	Li = 0 nH; Ci ≤ 150 nF	Li = 0 nH; Ci = 0 nF

Weight

~ 90 g

Packaging (Please state on order)

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

Accuracy

Parameter		Unit	
Characteristic line [1]		% fs	± 0.3
Resolution		% fs	0.1
Thermal characteristic [2]	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 in bar

				1	2	3	4	5	6	7	8	9	10	11
				528.	X	X	X	X	X	X	X	X	X	X	X
Pressure range (relative) [3]	-1 ... 0 bar			9	0	1								
	0 ... 1 bar			9	1	1								
	0 ... 1.6 bar			9	1	2								
	0 ... 2.5 bar			9	1	4		0,4						
	0 ... 4 bar			9	1	5		0,4						
	0 ... 6 bar			9	1	7		0,4						
	0 ... 10 bar			9	3	0		0,4						
	0 ... 16 bar			9	3	1		0,4						
	0 ... 25 bar			9	3	2		0,4					1	
	0 ... 40 bar			9	3	3		0,4					1	
	0 ... 60 bar			9	4	0		0,4					1	
Pressure range (absolute) [3]	0 ... 1 bar			8	1	1								
	0 ... 1.6 bar			8	1	2								
	0 ... 2.5 bar			8	1	4								
	0 ... 4 bar			8	1	5								
	0 ... 6 bar			8	1	7								
	0 ... 10 bar			8	3	0								
	0 ... 16 bar			8	3	1								
Sealing material	FPM	Fluoro elastomer	(Ex) -15 ... +120 °C)				0							
	EPDM	Ethylene propylene	(Ex) -30 ... +120 °C)				1							
	NBR	Butadiene Acylonitrile					2							
	MVQ	Silicone polymer	(Ex) -30 ... +120 °C)				3							
	FPM	Fluoro elastomer	(Ex) -30 ... +120 °C)				5							
Application	standard							0						
	for oxygen applications						0	1				1	1	
	with drinking water approval NSF 61						0	4				1	1	
Output / power supply	0 ... 5 V	7 ... 33 VDC							1					
	1 ... 6 V	8 ... 33 VDC							6					
	0 ... 10 V	12 ... 33 VDC							2					
		12 ... 33 VDC / 24 VAC ±15% *(not possible with M12x1, metri Pack, RAST, braids)*							8					
	ratiom. 10 ... 90%	5VDC ±10%							7					
		5VDC ±10% Ex protection						0,4	9	3			1	
	4 ... 20 mA	7 ... 33 VDC							3					
		7 ... 33 VDC Raised noise resistantcy (*(not possible with Braids)*							A					
		10 ... 30 VDC Ex protection						0,4	4	1,3			1	
Electrical connection	Connector [4]	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				
		Metri Pack Serie 150 [5]						0,4		5				
	Braids	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 [3]	Inside thread	7/16-20 UNF sealing cone									K		1	
		½ -14 NPT									D		1	
		G ¼ with O-Ring seal FPM spec.									1		1	
	Outside thread	7/16 -20 UNF sealing cone									2		1	
		¼ -18 NPT									3		1	
		G ¼ sealed at back DIN 3852-E, with profile seal ring in FPM spec.									4		1	
		G ¼ sealed at back and manometer, with profile seal ring in FPM spec.									5	1	1	
		R ¼ acc. to EN 10226									7		1	
		G ½ sealed at back and manometer, with profile seal ring in FPM spec.						0,1			8		1	
		7/16-20 UNF sealed at front									G		1	
		⅛ - 27 NPT									A		1	
		G ⅛ sealed at front									M		1	
		G ⅛ sealed at back DIN 3852-E, with Profile seal ring in FPM spec.						0,1			H		1	
		G ¼ sealed at front									J	1	2	
		G ½ sealed at back and manometer, with profile seal ring in FPM spec.						0,1			C		1	
		M10x1 sealed at back, with profile seal ring in FPM spec						0,1			F		1	
		M20x1.5									E		1	
		G ½ sealed at front									9			
Pressure orifice	without											1		
	with											2		
Material pressure connection	Stainless steel 1.4404 / AISI 316L												1	
	PVDF outside thread	sealed at front G ¼, G ½	≤ 16 bar										2	
Pressure range variation (optional)	Indicate W and state range on order (e.g.: W0... + 3bar/OUT0...5V)													W

[1] typ. ; max. 0.5% fs (incl. zero point, full scale, linearity, hysteresis and repeatability)
[2] -15 ... 85 °C
[3] Other pressure ranges or pressure connections on request
[4] Delivery without female connector
[5] For pressure ranges ≤ 10 bar (relative) only possible if deareation through the cable is assured

Order code selection in psi				1	2	3	4	5	6	7	8	9	10	11
			528.	X	X	X	X	X	X	X	X	X	X	X
Pressure range (relative) [1]	-30 ... 0" hg			9	B	0								
	0 ... 15 psi			9	B	1								
	0 ... 20 psi			9	B	2								
	0 ... 30 psi			9	B	4		0,4						
	0 ... 60 psi			9	B	5		0,4						
	0 ... 100 psi			9	B	7		0,4						
	0 ... 150 psi			9	C	0		0,4						
	0 ... 200 psi			9	C	1		0,4						
	0 ... 300 psi			9	C	2		0,4					1	
	0 ... 500 psi			9	C	3		0,4					1	
	0 ... 750 psi			9	D	0		0,4					1	
Pressure range (absolute) [1]	0 ... 15 psi			8	B	1								
	0 ... 20 psi			8	B	2								
	0 ... 30 psi			8	B	4								
	0 ... 60 psi			8	B	5								
	0 ... 100 psi			8	B	7								
	0 ... 150 psi			8	C	0								
	0 ... 200 psi			8	C	1								
Sealing material	FPM	Fluoro elastomer	(Ex) -15 ... +120 °C)				0							
	EPDM	Ethylene propylene	(Ex) -30 ... +120 °C)				1							
	NBR	Butadiene Acylonitrile					2							
	MVQ	Silicone polymer	(Ex) -30 ... +120 °C)				3							
	FPM	Fluoro elastomer	(Ex) -30 ... +120 °C)				5							
Application	standard							0						
	for oxygen applications						0	1				1	1	
	with drinking water approval NSF 61						0	4				1	1	
Output / power supply	0 ... 5 V	7 ... 33 VDC							1					
	1 ... 6 V	8 ... 33 VDC							6					
	0 ... 10 V	12 ... 33 VDC							2					
		12 ... 33 VDC / 24 VAC ±15% *(not possible with M12x1, metri Pack, RAST, braids)*							8					
	ratiom. 10 ... 90%	5 VDC ±10%							7					
		5 VDC ±10% Ex protection						0,4	9	3			1	
	4 ... 20 mA	7 ... 33 VDC							3					
		7 ... 33 VDC Raised noise resistantcy *(not possible with Braids)*							A					
		10 ... 30 VDC Ex protection						0,4	4	1,3			1	
Electrical connection	Connector [2]	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				
		Metri Pack Serie 150 [3]						0,4		5				
	Braids	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 [3]	Inside thread	7/16-20 UNF sealing cone									K		1	
		½ -14 NPT									D		1	
		G ¼ with O-Ring seal FPM spec.									1		1	
	Outside thread	7/16 -20 UNF sealing cone									2		1	
		¼ -18 NPT									3		1	
		G ¼ sealed at back DIN 3852-E, with profile seal ring in FPM spec.									4		1	
		G ¼ sealed at back and manometer, with profile seal ring in FPM spec.									5	1	1	
		R ¼ acc. to EN 10226									7		1	
		G ½ sealed at back and manometer, with profile seal ring in FPM spec.						0,1			8		1	
		7/16-20 UNF sealed at front									G		1	
		⅛ - 27 NPT									A		1	
		G ⅛ sealed at front									M		1	
		G ⅛ sealed at back DIN 3852-E, with Profile seal ring in FPM spec.						0,1			H		1	
		G ¼ sealed at front									J	1	2	
		G ½ sealed at back and manometer, with profile seal ring in FPM spec.						0,1			C		1	
		M10x1 sealed at back, with profile seal ring in FPM spec.						0,1			F		1	
		M20x1.5									E		1	
		G ½ sealed at front									9			
Pressure orifice	without											1		
	with											2		
Material pressure connection	Stainless steel 1.4404 / AISI 316L												1	
	PVDF outside thread	sealed at front G ¼, G ½	≤ 200 psi										2	
Pressure range variation (optional)	Indicate W and state range on order (e.g.: W0... + 16psi/OUT0...5V)													W

Accessories	Order number
Swift connector	107359
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	104551

[1] Other pressure ranges or pressure connections on request [2] Delivery without female connector [3] For pressure ranges ≤ 150 psi (relative) only possible if deareation through the cable is assured

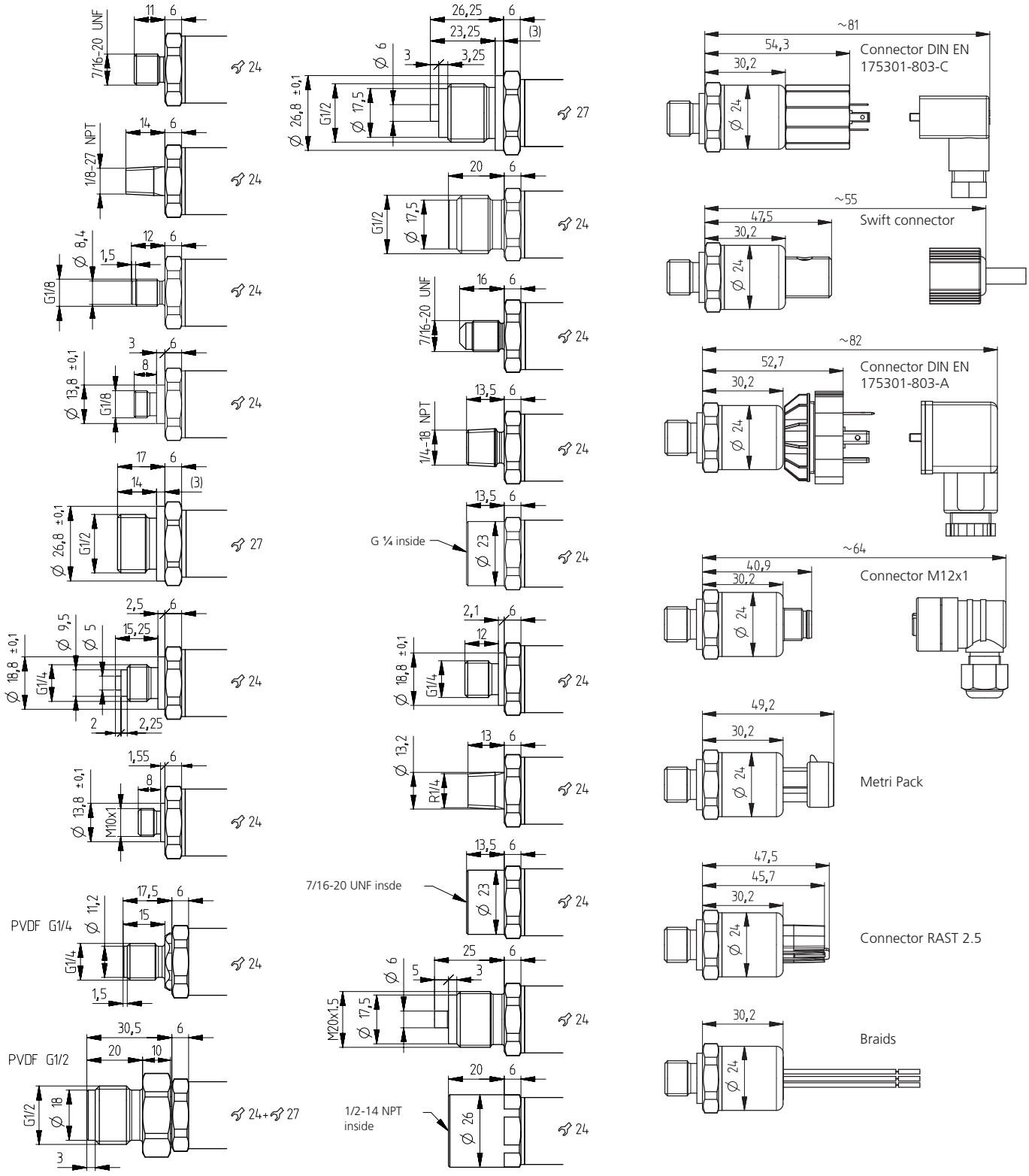
Order code selection in MPa

528. X X X X X X X X X X X

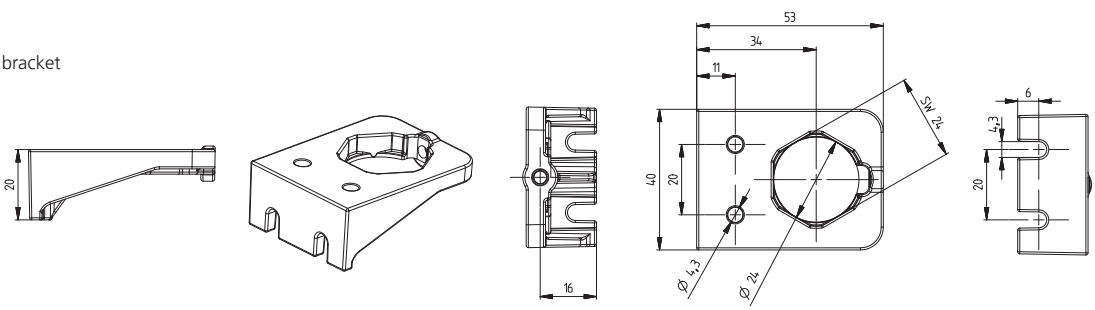
				1	2	3	4	5	6	7	8	9	10	11
Pressure range (relative) [1]	-0.1 ... 0 MPa			9	G	0								
	0 ... 0.1 MPa			9	G	1								
	0 ... 0.16 MPa			9	G	2								
	0 ... 0.25 MPa			9	G	4		0,4						
	0 ... 0.4 MPa			9	G	5		0,4						
	0 ... 0.6 MPa			9	G	7		0,4						
	0 ... 1 MPa			9	H	0		0,4						
	0 ... 1.6 MPa			9	H	1		0,4						
	0 ... 2.5 MPa			9	H	2		0,4					1	
	0 ... 4 MPa			9	H	3		0,4					1	
	0 ... 6 MPa			9	K	0		0,4					1	
Pressure range (absolute) [1]	0 ... 0.1 MPa			8	G	1								
	0 ... 0.16 MPa			8	G	2								
	0 ... 0.25 MPa			8	G	4								
	0 ... 0.4 MPa			8	G	5								
	0 ... 0.6 MPa			8	G	7								
	0 ... 1 MPa			8	H	0								
	0 ... 1.6 MPa			8	H	1								
Sealing material	FPM	Fluoro elastomer	(Ex) -15 ... +120 °C)				0							
	EPDM	Ethylene propylene	(Ex) -30 ... +120 °C)				1							
	NBR	Butadiene Acylonitrile					2							
	MVQ	Silicone polymer	(Ex) -30 ... +120 °C)				3							
	FPM	Fluoro elastomer	(Ex) -30 ... +120 °C)				5							
Application	standard							0						
	for oxygen applications						0	1				1	1	
	with drinking water approval NSF 61						0	4				1	1	
Output / power supply	0 ... 5 V	7 ... 33 VDC							1					
	1 ... 6 V	8 ... 33 VDC							6					
	0 ... 10 V	12 ... 33 VDC							2					
		12 ... 33 VDC / 24 VAC ±15% *(not possible with M12x1, metri Pack, RAST, braids)*							8					
	ratiom. 10 ... 90%	5 VDC ±10%							7					
		5 VDC ±10% Ex protection						0,4	9	3			1	
	4 ... 20 mA	7 ... 33 VDC							3					
		7 ... 33 VDC Raised noise resistantcy *(not possible with Braids)*							A					
		10 ... 30 VDC Ex protection						0,4	4	1,3			1	
Electrical connection	Connector [2]	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				
		Metri Pack Serie 150 [3]						0,4		5				
	Braids	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 [3]	Inside thread	7/16-20 UNF sealing cone									K		1	
		½ -14 NPT									D		1	
		G ¼ with O-Ring seal FPM spec.									1		1	
	Outside thread	7/16 -20 UNF sealing cone									2		1	
		¼ -18 NPT									3		1	
		G ¼ sealed at back DIN 3852-E, with profile seal ring in FPM spec.									4		1	
		G ¼ sealed at back and manometer, with profile seal ring in FPM spec.									5	1	1	
		R ¼ acc. to EN 10226									7		1	
		G ½ sealed at back and manometer, with profile seal ring in FPM spec.						0,1			8		1	
		7/16-20 UNF sealed at front									G		1	
		⅛ - 27 NPT									A		1	
		G ⅛ sealed at front									M		1	
		G ⅛ sealed at back DIN 3852-E, with Profile seal ring in FPM spec.						0,1			H		1	
		G ¼ sealed at front									J	1	2	
		G ½ sealed at back and manometer, with profile seal ring in FPM spec.						0,1			C		1	
		M10x1 sealed at back, with profile seal ring in FPM spec.						0,1			F		1	
		M20x1.5									E		1	
		G ½ sealed at front									9			
Pressure orifice	without											1		
	with											2		
Material pressure connection	Stainless steel 1.4404 / AISI 316L												1	
	PVDF outside thread	sealed at front G ¼, G ½	≤ 1.6 MPa										2	
Pressure range variation (optional)	Indicate W and state range on order (e.g.: W0... + 0.3MPa/OUT0...5V)													W

[1] Other pressure ranges or pressure connections on request
[2] Delivery without female connector
[3] For pressure ranges ≤ 1 MPa (relative) only possible if deareation through the cable is assured

Dimensions in mm



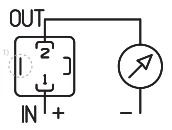
Mounting bracket



Electrical connections

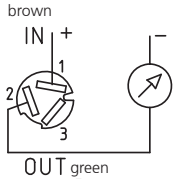
2 wire

Connector DIN EN 175301-803-A or C



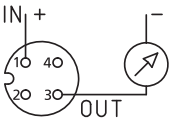
1 (IN) 2 (OUT)

Swift connector



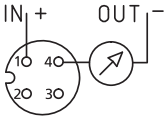
1 (IN) 2 (OUT)

Connector M12x1



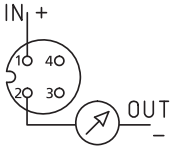
1 (IN) 3 (OUT)

Connector M12x1



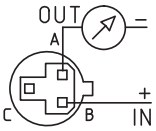
1 (IN) 4 (OUT)

Connector M12x1



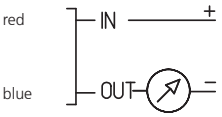
1 (IN) 2 (OUT)

Metri Pack Serie 150



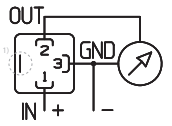
B (IN) A (OUT)

Braids



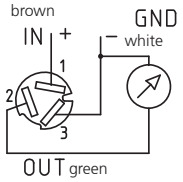
3 wire

Connector DIN EN 175301-803-A or C



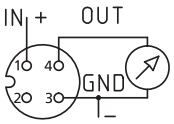
1 (IN) 2 (OUT) 3 (GND)

Swift connector



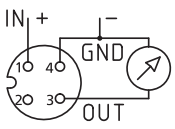
1 (IN) 2 (OUT) 3 (GND)

Connector M12x1



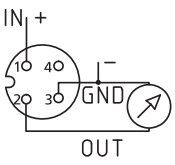
1 (IN) 4 (OUT) 3 (GND)

Connector M12x1



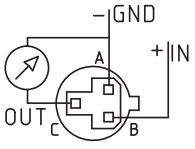
1 (IN) 3 (OUT) 4 (GND)

Connector M12x1



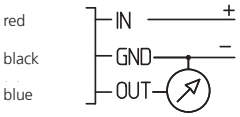
1 (IN) 2 (OUT) 3 (GND)

Metri Pack Serie 150

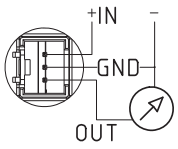


B (IN) C (OUT) A (GND)

Braids

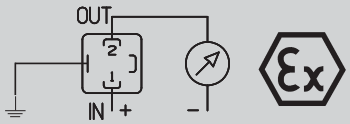


Connector RAST 2.5



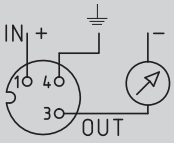
Device design with explosion protection: 4 ... 20 mA
The grounding connection is conductively connected to the transmitter housing.

Connector DIN EN 175301-803-A



1 (IN) 2 (OUT) ⏚

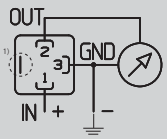
Connector M12x1



1 (IN) 3 (OUT) 4 (⏚)

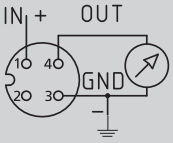
Device design with explosion protection: ratiom. 10 ... 90%
The electronic GND is connected with a 1MΩ resistor to the transmitter housing.

Connector DIN EN 175301-803-A



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

Connector M12x1



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

[1] Not connected with transmitter housing

Huba Control

FOR FINE PRESSURE AND FLOW MEASUREMENT

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