



Pressure transmitter

# Huba Control

## Relative pressure transmitter Type 520

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.



### Pressure range

**-1 ... 9 bar /**

**0 ... 2.5 – 1000 bar**

- + 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

### Pressure range

Relative -1 ... 9 bar / 0 ... 2.5 - 1000 bar

### Operating conditions

Medium	Liquids, gases and refrigerants (incl. ammonia)
Temperature	Medium -40 ... +135 °C (Ex) -30 ... +120 °C Ambient -30 ... +85 °C (Ex) -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)

### Materials

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 Sensor Stainless steel 1.4404 / AISI 316L (inside thread Schrader 1.4305 / AISI 303 only) Stainless steel

### Electrical overview

	Output	Power supply	Load	Current consumption
2 wire	4 ... 20 mA	7 ... 33 VDC	< $\frac{\text{supply voltage} - 7 \text{ V}}{0.02 \text{ A}}$ [Ohm]	< 23 mA
	4 ... 20 mA	10 ... 30 VDC	< $\frac{\text{supply voltage} - 10 \text{ V}}{0.02 \text{ A}}$ [Ohm]	< 23 mA
	0 ... 5 V	7 ... 33 VDC	> 10 kOhm / < 100 nF	< 7 mA
3 wire	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
	ration. 10 ... 90%	5 VDC ± 10%	> 10 kOhm / < 100 nF	< 7 mA
	ration. 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	standard			500 VDC

### Dynamic response

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

### Electrical connection

Electrical connection	Protection standard	Protection class
Swift connector with or without cable 1.5 / 2.0 / 3.0 / 5.0 m (PVC spec.)	IP 67	III
Connector DIN EN 175301-803-A or C (industrial standard 9.4 mm)	IP 65	III
Metri Pack Serie 150	IP 67	III
Connector M12x1	IP 67	III
Braids	IP 65	III
Connector RAST 2.5 (3 wire, only)	IP 00	III

### Pressure connection

Inside thread	$\frac{7}{16}$ - 20 UNF	without or with Schrader
	$\frac{1}{2}$ - 14 NPT	(≤ 60 bar)
	G $\frac{1}{4}$	with O-Ring seal FPM (-30 ... +135 °C)
Outside thread	$\frac{7}{16}$ - 20 UNF	sealing cone 45°
	$\frac{1}{4}$ - 18 NPT	
	$\frac{7}{16}$ - 20 UNF	sealed at back SAE 4 with O-Ring seal FPM (-20 ... +135 °C)
	G $\frac{1}{4}$	sealed at back DIN EN ISO 1179-2 with profile seal ring in FPM (-30 ... +135 °C)
	G $\frac{1}{4}$	sealed at back and manometer (combi) with profile seal ring in FPM (-30 ... +135 °C) (≤ 60 bar)
	R $\frac{1}{4}$	EN 10226
	G $\frac{1}{2}$	sealed at back and manometer (combi) with profile seal ring in FPM (-30 ... +135 °C)
	$\frac{1}{8}$ - 27 NPT	(≤ 60 bar)
	G $\frac{1}{8}$	sealed at front (≤ 60 bar)
	G $\frac{1}{8}$	sealed at back DIN EN ISO 1179-2 with profile seal ring in FPM (-30 ... +135 °C) (> 60 bar - without ATEX certificate)
	M10x1	sealed at back DIN EN ISO 1179-2 with Profile seal ring in FPM (-30 ... +135 °C) (≤ 60 bar)
M20x1.5	sealed at front and manometer (combi)	
G $\frac{1}{2}$ , G $\frac{1}{4}$	sealed at front	

### Installation arrangement

Unrestricted

### Tests / Admissions

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
EAC	WRAS

### Protection against explosion (Ex)

	ration. 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
EC type examination certificate	Ex II 1/2 D Ex ia IIC T125°C Da/Db	Ex II 1/2 D Ex ia IIC T125°C Da/Db
Connection to certified intrinsically safe resistive circuits with maximum values	SEV 15 ATEX 0173	SEV 10 ATEX 0145
Effective internal inductance and capacitance for versions with plugs complying with EN 175301-803-A or M12x1	Ui ≤ 15 VDC; li ≤ 200 mA; Pi ≤ 750 mW	Ui ≤ 30 VDC; li ≤ 100 mA; Pi ≤ 750 mW
IECEx	Li = 0 nH; Ci ≤ 150 nF	Li = 0 nH; Ci = 0 nF
		SEV 16.0007

### 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 a <sup>1)</sup>	% fs	± 0.3
Resolution	% fs	0.1
Thermal characteristic <sup>2)</sup>	max. % fs/10K	± 0.2
Long term stability acc. 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/ANSI 61/372, WRAS					S	4			0	1		
Output / power supply	0 ... 5V							1					
	1 ... 6V							6					
	0 ... 10V	7 ... 33 VDC							2				
		12 ... 33 VDC							C	1,2,3			
		12 ... 33 VDC Enhanced EMC protection							8				
	ration. 10 ... 90%	12 ... 33 VDC / 24 VAC ±15% (not possible with M12x1, metri Pack, RAST, braids)							7				
		5VDC ±10%						0,4	9	1,3		1	
	4 ... 20 mA	5VDC ±10% Ex protection							3				
7 ... 33 VDC								A					
7 ... 33 VDC Enhanced EMC protection (not possible with Braids)							0,4	4	1,3		1		
Electrical connection	Connector <sup>4)</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						0,4	5				
		80 ±10 mm						0,4	6				
		290 ±10 mm						0,4	7				
		480 ±10 mm						0,4	8				
	Swift connector	730 ±10 mm						0,4	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>2)</sup>	Inside thread	with cable 5.0 m							R				
		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>5)</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 EN ISO 1179-2 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						0,1		G		1	
		1/8"-27 NPT <sup>5)</sup>								A		1	
		G 1/8 sealed at front <sup>5)</sup>								M		1	
		G 1/8 sealed at back DIN EN ISO 1179-2 with Profile seal ring in FPM <sup>6)</sup>						0,1		H		1	
M10x1 sealed at back DIN EN ISO 1179-2 with profile seal ring in FPM <sup>6)</sup>						0,1		F		1			
Pressure orifice	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		
Material	without (inclusive pressure tip orifice from 100 bar on)									0			
	with									2			
pressure connection	Stainless steel 1.4305 / AISI 303											N	
	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> Pressure range ≤ 60 bar

<sup>6)</sup> Pressure range ≤ 250 bar (max. rupture pressure 1000 bar)

		1	2	3	4	5	6	7	8	9	10	11	
<b>Order code selection table in psi</b>		<b>520. X X X X X X X X X X X X</b>											
<b>Pressure range <sup>1)</sup></b>	-15 ... 130 psi	9	A	6									
	0 ... 30 psi	9	B	4									
	0 ... 60 psi	9	B	5									
	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										
<b>Application</b>	standard				S	0							
	for oxygen applications				S	1				0			
	with drinking water approval NSF/ANSI 61/372, WRAS				S	4				0	1		
<b>Output / power supply</b>	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	
<b>Electrical connection</b>	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							0,4		5		
		80 ±10 mm							0,4		6		
		290 ±10 mm							0,4		7		
		480 ±10 mm							0,4		8		
	Swift connector	730 ±10 mm							0,4		9		
		without cable									0		
		with cable 1.5 m									L		
with cable 2.0 m										N			
with cable 3.0 m										Q			
<b>Pressure connection <sup>1)</sup></b>	Inside thread	with cable 5.0 m								R			
		$\frac{7}{16}$ -20 UNF sealing cone with schrader				0,4				0	0	N	
		$\frac{7}{16}$ -20 UNF sealing cone									K	1	
	Outside thread	$\frac{1}{2}$ -14 NPT <sup>3)</sup>									D	1	
		G $\frac{1}{4}$ with O-Ring seal FPM									1	1	
		$\frac{7}{16}$ -20 UNF sealing cone									2	1	
		$\frac{1}{4}$ -18 NPT									3	1	
		G $\frac{1}{4}$ sealed at back DIN EN ISO 1179-2 with profile seal ring in FPM									4	1	
		G $\frac{1}{4}$ sealed at back and manometer with profile seal ring in FPM									5	0	1
		R $\frac{1}{4}$ acc. to EN 10226									7	1	
		G $\frac{1}{2}$ sealed at back and manometer with profile seal ring in FPM						0,1			8	1	
		$\frac{7}{16}$ -20 UNF sealed at back SAE 4 with O-Ring seal FPM						0,1			G	1	
		$\frac{1}{8}$ -27 NPT <sup>3)</sup>									A	1	
		G $\frac{1}{8}$ sealed at front <sup>3)</sup>									M	1	
		G $\frac{1}{8}$ sealed at back DIN EN ISO 1179-2 with Profile seal ring in FPM <sup>4)</sup>						0,1			H	1	
		M10x1 sealed at back DIN EN ISO 1179-2 with profile seal ring in FPM <sup>3)</sup>						0,1			F	1	
		M20x1.5 sealed at front and manometer (combi)									E	1	
G $\frac{1}{4}$ sealed at front									J	1			
G $\frac{1}{2}$ sealed at front									9	1			
<b>Pressure orifice</b>	without (inclusive pressure tip orifice from 2000 psi on)										0		
	with										2		
<b>Material pressure connection</b>	Stainless steel 1.4305 / AISI 303											N	
	Stainless steel 1.4404 / AISI 316L											1	
<b>Pressure range variation (optional)</b>	Indicate W and state range on order (e.g.: W0... +400psi/OUT0...5V)											W	

<sup>1)</sup> Other pressure ranges or pressure connections on request  
<sup>4)</sup> Pressure range ≤ 3000 psi (max. rupture pressure 14500 bar)

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

<sup>3)</sup> Pressure range ≤ 870 psi

		1	2	3	4	5	6	7	8	9	10	11	
<b>Order code selection table in MPa</b>		520. X X X X X X X X X X X X											
<b>Pressure range <sup>1)</sup></b>	-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										
<b>Application</b>	standard				S	0							
	for oxygen applications				S	1				0			
	with drinking water approval NSF/ANSI 61/372, WRAS				S	4				0	1		
<b>Output / power supply</b>	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				
<b>Electrical connection</b>	4 ... 20 mA							3					
								A					
							0,4	4	1,3				
	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			
	Braids	RAST 2.5					0,4	7	4				
		Metri Pack Serie 150					0,4		5				
.80 ±10 mm						0,4		6					
290 ±10 mm						0,4		7					
480 ±10 mm						0,4		8					
Swift connector	730 ±10 mm					0,4		9					
	without cable							0					
	with cable 1.5 m							L					
	with cable 2.0 m							N					
<b>Pressure connection <sup>1)</sup></b>	with cable 3.0 m							Q					
	with cable 5.0 m							R					
	Inside thread	<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>3)</sup>								D		1	
	Outside thread	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	
		<sup>1</sup> / <sub>4</sub> -18 NPT								3		1	
		G <sup>1</sup> / <sub>4</sub> sealed at back DIN EN ISO 1179-2 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					0,1			G		1	
		<sup>1</sup> / <sub>8</sub> - 27 NPT <sup>3)</sup>								A		1	
		G <sup>1</sup> / <sub>8</sub> sealed at front <sup>3)</sup>								M		1	
	<b>Pressure orifice</b>	G <sup>1</sup> / <sub>8</sub> sealed at back DIN EN ISO 1179-2 with Profile seal ring in FPM <sup>4)</sup>					0,1			H		1	
		M10x1 sealed at back DIN EN ISO 1179-2 with profile seal ring in FPM <sup>3)</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		
without (inclusive pressure tip orifice from 10 MPa on)										0			
with										2			
<b>Material pressure connection</b>	Stainless steel 1.4305 / AISI 303										N		
	Stainless steel 1.4404 / AISI 316L										1		
<b>Pressure range variation (optional)</b>	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

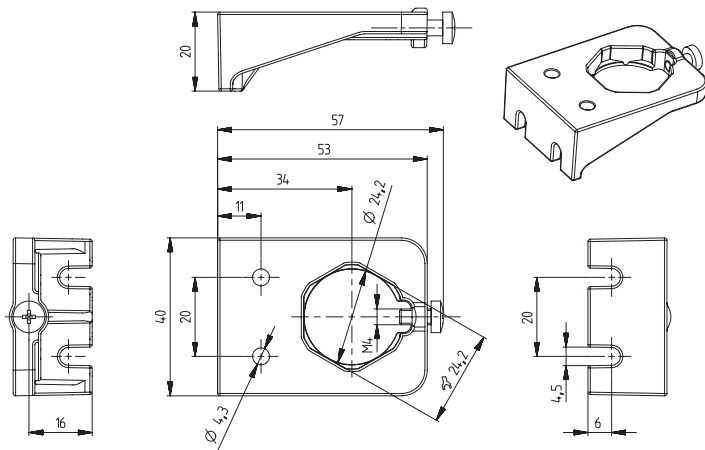
<sup>2)</sup> Delivery without female connector

<sup>3)</sup> Pressure range ≤ 6 MPa

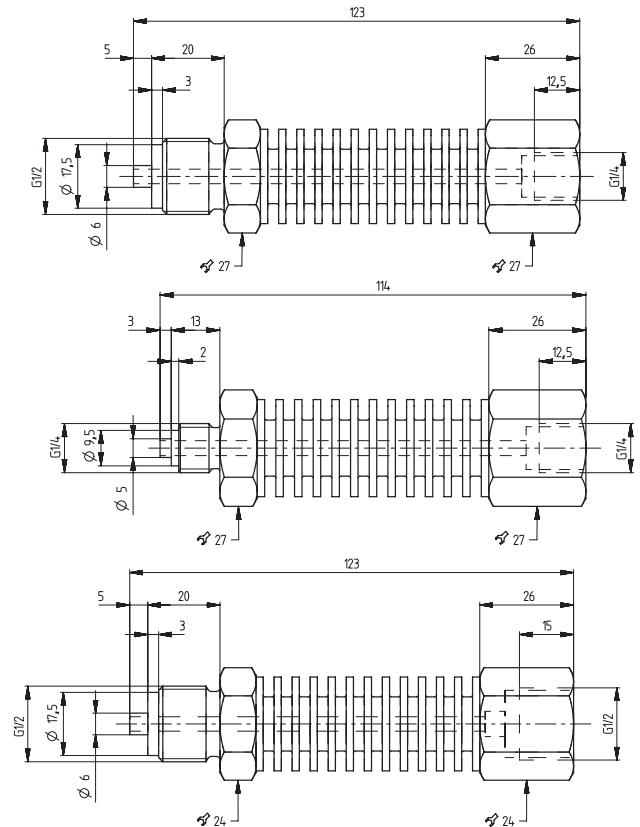
<sup>4)</sup> Pressure range ≤ 25 MPa (max. rupture pressure 100 MPa)

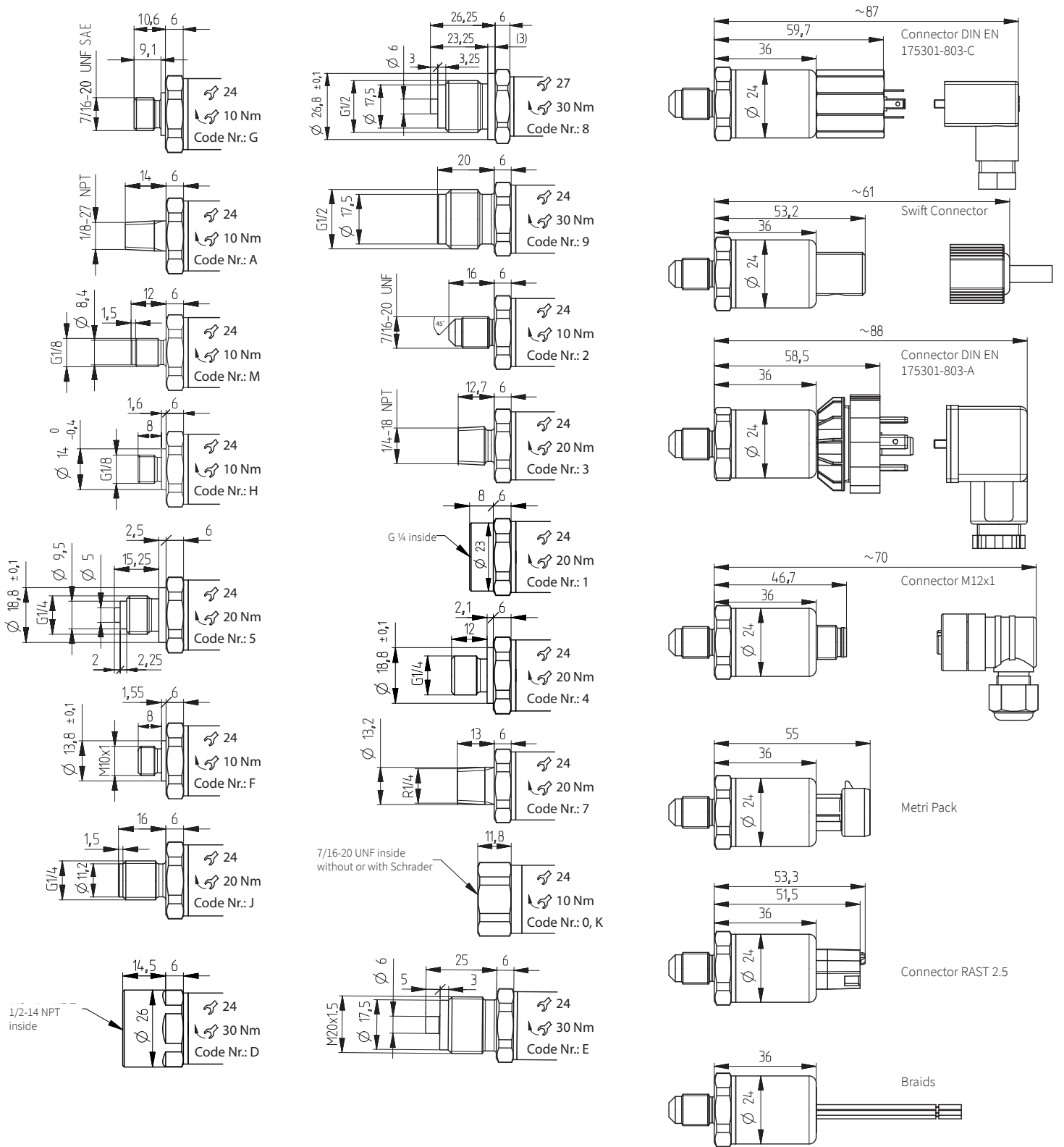
Swift connector	117312
Female connector DIN EN 175301-803-A with seal	103510
Female connector DIN EN 175301-803-C with seal	104244
Corner-wire box for connector M12x1	106975
Corner-wire box for connector M12x1 with cable 2.0 m	114604
Straight-wire box for connector M12x1	114570
Straight-wire box for connector M12x1 with cable 2.0 m	114605
Mounting bracket with screw	118716
Heat sink with outside thread G 1/2 sealed at front - inside thread G 1/2	105631
Heat sink with outside thread G 1/2 sealed at front - inside thread G 1/4	105073
Heat sink with outside thread G 1/4 sealed at front - inside thread G 1/4	105074
Calibration certificate ( $\leq 600$ bar)	104551

Mounting bracket



Heat sink

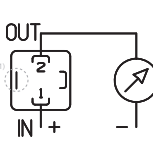




# Electrical connections

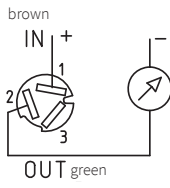
## 2 wire

Connector DIN  
EN 175301-803-A or C



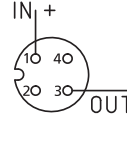
1 (IN) 2 (OUT)

Swift connector



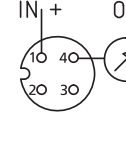
1 (IN) 2 (OUT)

Connector M12x1



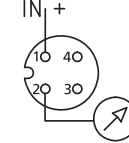
1 (IN) 3 (OUT)

Connector M12x1



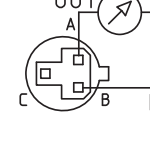
1 (IN) 4 (OUT)

Connector M12x1



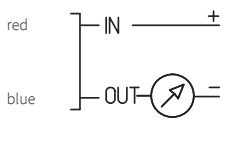
1 (IN) 2 (OUT)

Metri Pack Serie 150



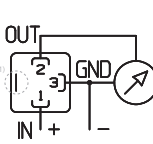
B (IN) A (OUT)

Braids



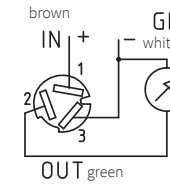
## 3 wire

Connector DIN  
EN 175301-803-A or C



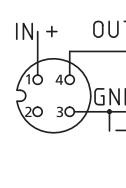
1 (IN) 2 (OUT) 3 (GND)

Swift connector



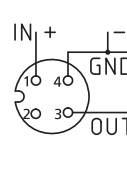
1 (IN) 2 (OUT) 3 (GND)

Connector M12x1



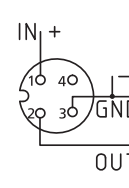
1 (IN) 4 (OUT) 3 (GND)

Connector M12x1



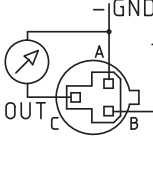
1 (IN) 3 (OUT) 4 (GND)

Connector M12x1



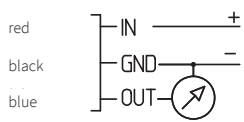
1 (IN) 2 (OUT) 3 (GND)

Metri Pack Serie 150

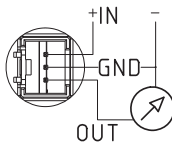


B (IN) C (OUT) A (GND)

Braids

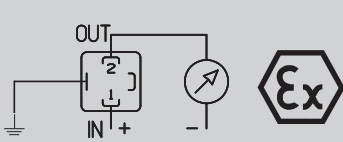


Connector RAST 2.5



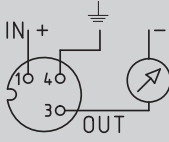
Device design with explosion protection: 4 ... 20 mA  
The grounding connection is conductively connected to the transmitter housing.

Connector DIN  
EN 175301-803-A



1 (IN) 2 (OUT) ↓

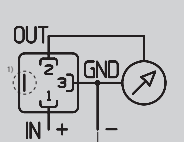
Connector M12x1



1 (IN) 3 (OUT) 4 (↓)

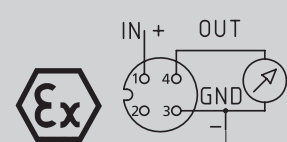
Device design with explosion protection: ratiom. 10 ... 90%  
The electronic GND is connected with a 1MΩ resistor to the transmitter housing.

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

Connector M12x1



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



**Huba Control AG**

Headquarters Schweiz  
Industriestrasse 17  
CH-5436 Würenlos  
Telefon +41 56 436 82 00  
Fax +41 56 436 82 82  
info.ch@hubacontrol.com

**Huba Control AG**

Vestiging Nederland  
Hamseweg 20A  
NL-3828 AD-Hoogland  
Telefoon +31 33 433 03 66  
Telefax +31 33 433 03 77  
info.nl@hubacontrol.com

**Huba Control AG**

Niederlassung Deutschland  
Schlattgrabenstrasse 24  
D-72141 Walddorfhäslach  
Telefon +49 7127 2393 00  
Fax +49 7127 2393 20  
info.de@hubacontrol.com

**Huba Control USA, Inc.**

Office United States of America  
303 Wyman Street  
Suite #300  
Waltham MA 02451  
Tel: +1 866-6HUBACO (+1 866-648-2226)  
info.usa@hubacontrol.com

**Huba Control SA**

Succursale France  
Rue Lavoisier  
Technopôle Forbach-Sud  
F-57602 Forbach Cedex  
Téléphone +33 3 87 84 73 00  
Télécopieur +33 3 87 84 73 01  
info.fr@hubacontrol.com

**Huba Control AG**

Branch Office United Kingdom  
Unit 13 Berkshire House, County Park Business  
Centre, Shrivenham Road  
Swindon Wiltshire SN1 2NR  
Phone +44 1993 77 66 67  
Fax +44 1993 77 66 71  
info.uk@hubacontrol.com

**[www.hubacontrol.com](http://www.hubacontrol.com)**

