

**HUBA****Type 555 Relative Pressure Transmitter for Hydrogen Applications***F.S. Pressure Ranges from 0 to 40Bar up to 900 Bar, Voltage/Current/Ratiometric Outputs***DESCRIPTION**

The type 555 pressure transmitter has been developed for alternative drive systems. This high-pressure transmitter is suitable for vehicles and stationary applications thanks to the hydrogen approval acc. EC79.

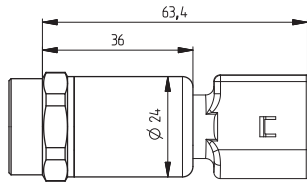
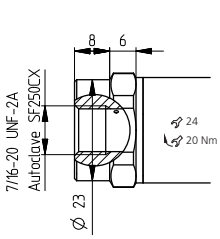
- ✓ Suitable for gaseous hydrogen
- ✓ compact and rugged construction for highest operational reliability
- ✓ welded without sealing parts, no elastomer seals
- ✓ Excellent EMC capacity
- ✓ Negligible temperature influence on accuracy



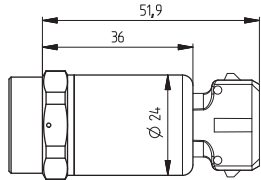
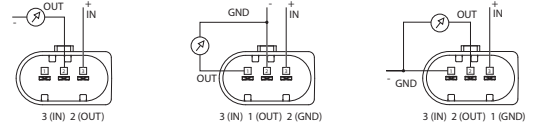
SPECIFICATIONS			
F.S. Pressure Ranges	0...40, 60, 100, 160, 250, 350, 400, 600, 700, 900 bar		
Medium	Gaseous hydrogen		
Temperature Ranges	Medium	Ambient	Storage
	-40...+85 °C	-40...+85 °C	-50...100 °C
Tolerable overload	according to order code selection table below		
Rupture pressure	according to order code selection table below		
Wetted Materials	Case	SS 1.4404 / AISI 316L	
	Plug accommodation	Polyarylamide 50%GF UL 94 V-0	
	with the medium	SS 1.4404/AISI 316L/1.4435	
Signal Output Options	Supply	Load	Current Consumption
2-wire, 4-20 mA output	7.5...33 VDC	(Ohms)= Supply Voltage-7.5V±0.02 A	<23 mA
3-wire, 0-5V output	7...33 VDC	>10k Ohm/<100 nF	<7 mA
3-wire, 0-10V output	12...33 VDC	>10k Ohm/<100 nF	<7 mA
3-wire, ratiometric 10...90% supply voltage	5VDC ± 10%	>10k Ohm/<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		
Accuracy			
Characteristic line acc. IEC 61298-2	±0.5 % F.S.		
Resolution	0.1 % F.S.		
Thermal characteristic (max.)	±0.2% F.S./10K		

SPECIFICATIONS CONTINUED		
Dynamic Response		
Response Time	<2 ms (10 ... 90%, 1 ms Typ.)	
Load Cycle	<100Hz	
Electrical Connection Options	Protection Standard	Protection Class
Kostal SLK 2.8 coding A	IP 69K	III
AMP-JPT	IP67	III
AMP Superseal 1.5	IP67	III
Deutch DT04-3P	IP 69K	III
Deutch DT04-4P	IP 69K	III
Metri Pack 150 P2S Series	IP 67	III
M12x1	IP 69K	III
Pressure Connection	Inside Threads: 7/16 - 20 UNF	Autoclave SF250CX
Installation Orientation	Unrestricted	
Weight	90 g	
Tests / Admissions		
Electromagnetic Compatibility		
<b>Noise Immunity / Noise Emission</b>	<b>Noise Immunity Automotive Guideline</b>	
IIISO 13766-earth moving equipment	ISO 11452-2, HF (Field), 100 V/m (200...2000 MHz)	
DIN EN 13309-construction equipment	ISO 11452-4, HF (BCI), 100 mA (20...400 MHz)	
DIN ISO 14982-agriculture / forestry	ISO 10605, ESD, ±15 kV contact, ±15 kV air	
Automotive guideline ECE R10	ISO 7637-2, plus 1, 2a, 2b, 3a, 3b (test level 4)	
Automotive guideline 2004/104/EG	ISO 16750-2, Load Dump, 155V (1ohm, 300 ms)	
EN 61326-2-3 - pressure transducer		
EN12895:2015 - industrial trucks		
CISPR11		
Shock acc ISO 16750-3	50 g, 11ms, half sin wave, 1000x / axis	
Vibration acc. ISO 16750-3	Test VI (12g, sinusoidal 18g random vibration)	
EAC		
EC79/2009		

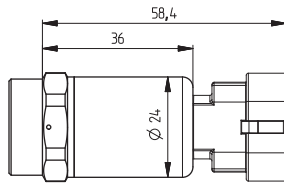
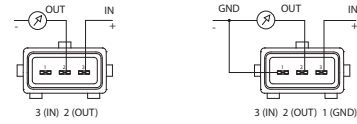
# Dimensions in mm / Electrical connections



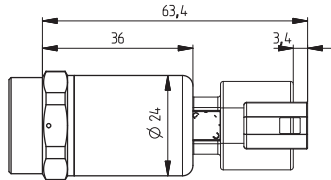
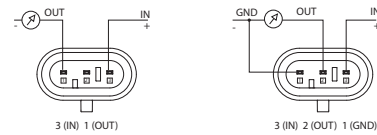
Kostal SLK 2.8



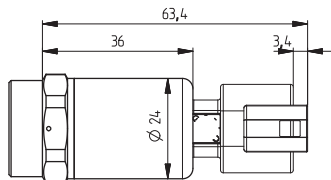
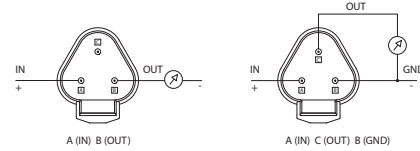
AMP JPT



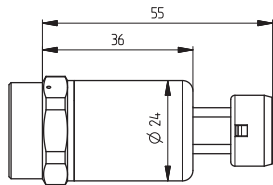
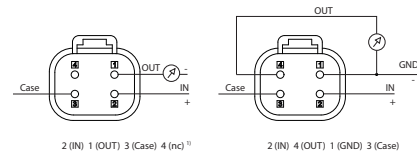
AMP Superseal 1.5



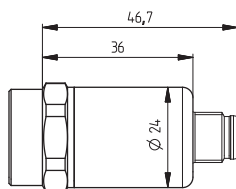
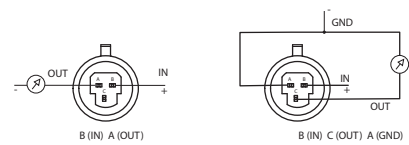
Deutsch DT04-3P



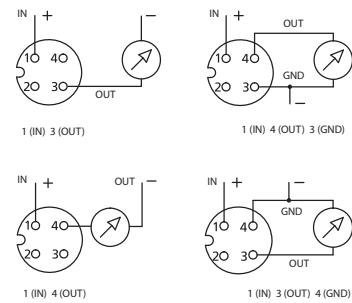
Deutsch DT04-4P



Metri Pack Series 150 P2S



M12x1



Order code selection table in bar

		P <sub>max</sub>	P <sub>Burst</sub>																	
Pressure range	0 ... 40 bar	100 bar	300 bar	9	3	3	S	0												
	0 ... 60 bar	100 bar	300 bar	9	4	0	S	0												
	0 ... 100 bar	200 bar	600 bar	9	4	1	S	0												
	0 ... 160 bar	240 bar	720 bar	9	4	2	S	0												
	0 ... 250 bar	375 bar	1125 bar	9	4	3	S	0												
	0 ... 350 bar	600 bar	1800 bar	9	5	3	S	0												
	0 ... 400 bar	600 bar	1800 bar	9	5	4	S	0												
	0 ... 600 bar	1050 bar	2100 bar	9	5	5	S	0												
	0 ... 700 bar	1050 bar	2100 bar	9	5	6	S	0												
0 ... 900 bar	1050 bar	2100 bar	9	5	9	S	0													
Output / power supply	0 ... 5 V	7 ... 33 VDC											1							
	0 ... 10 V	12 ... 33 VDC											2							
	4 ... 20 mA	7.5 ... 33 VDC											3							
	ration. 10 ... 90%	5 VDC ±10%											7							
Electrical connection													7	1						
	Kostal SLK 2.8 coding A	2w: IN=3 / OUT=2	3w: IN=3 / OUT=1 / GND=2											A						
	AMP-JPT													2						
	AMP Superseal 1.5													3						
	Deutsch DT04-3P													4						
	Deutsc DT04-4P													Y						
	Metri Pack 150 P2S													5						
M12x1	2w: IN=1 / OUT=3	3w: IN=1 / OUT=4 / GND=3											S							
	2w: IN=1 / OUT=4	3w: IN=1 / OUT=3 / GND=4											M							
Pressure connection	inner thread	7/16-20 UNF	Autoclave SF250CX												1	A	0			
Pressure range variation (optional)	Indicate W and state range on order (e.g.: W0... + 50bar/Out1...8V)																			W

Accessories <i>(supplied loose)</i>		Order Number
Corner-wire box for connector M12x1	3 wire	106975
Corner-wire box for connector M12x1 with cable	3 wire	114604
Straight-wire box for connector M12x1	3 wire	114570
Straight-wire box for connector M12x1 with cable	3 wire	114605
Set - Female connector Kostal SLK 2.8 coding A	2 wire (3 wire with 1 blanking plug)	120369
Set - Female connector Kostal SLK 2.8 coding A	3 wire	120368
Set - Female connector AMP JPT	2 wire (3 wire with 1 blanking plug)	110442
Set - Female connector AMP JPT	3 wire	108767
Set - Female connector AMP Superseal 1.5 (0.5 - 1.0 mm <sup>2</sup> )	3 wire (1 Blanking Plug to enable 2 wire)	120254
Set - Female connector AMP Superseal 1.5 (1.0 - 1.5 mm <sup>2</sup> )	3 wire (1 Blanking Plug to enable 2 wire)	120255
Set - Female connector Metri Pack 150 P2S Series	3 wire	120345
Calibration certificate (< 600 bar)		104551