


● Characteristics

0200 - TRANSMITTER - PRESSURE

	Pressure:	Relative
	Ranges:	0...60 bar up to 0...600 bar
	Output:	4...20 mA / 0...10 V / 1...5 V / 0,5...4,5 V
	Accuracy:	1% of span / 2% of span
	Temperature medium:	-40...+125 °C
	Material casing:	plastic PTB
	Pressure connection:	G1/4A / M14x1,5 / 7/16-20UNF-2A / 1/4 NPT
	Electrical connection:	see technical data
Protection:	at least IP67	

● Technical Data

Pressure Input

Relative pressure:	0...60 up to 0...600 bar
Ranges:	see table page 2
Overpressure limit:	see table page 2
Burst pressure:	see table page 2

Analog Output

4...20 mA:	2-wire	Load:	maximum (U+ - 10 V) / 0,02 A
1...5 V:	3-wire	Load:	>2,5 kΩ
0...10 V:	3-wire	Load:	>5 kΩ
0,5...4,5 V:	3-wire	Load:	>4,5 kΩ (ratiometric)
Response time 10...90%:	<2ms		

Performance

Accuracy:	<1% of span <2% of span for ranges 16 bar Including non-linearity, hysteresis, zero point and full scale error (corresponds to error of measurement per IEC 61298-2)
Non-linearity:	<0,4% of span (BFSL according to IEC 61298-2)
1-year stability:	<0,3% of span (at reference conditions)

Supply

Voltage:	With output 4...20 mA:	10...36 VDC
	With output 1...5 V:	8...36 VDC
	With output 0...10 V:	14...36 VDC
	With output 0,5...4,5 V:	5 VDC ±0,5 V
Insulation voltage:	500 VDC	
Wiring protection:	Short-circuit proof:	S+ towards U-
	Reverse voltage protection:	U+ towards U- (not with ratiometric signal output)

● Applications

The pressure transmitter is particularly suitable for all ranges of mobile hydraulics (hydraulic drive control, load moment limitation, load monitoring) with rough operating conditions.



● Technical Data (Continued)

Environmental Conditions

Ambient temperature:	-40...+100 °C
Storage temperature:	-40...+120 °C
Medium temperature:	-40...+125 °C
Nominal temp. range:	0...+80 °C
Temperature error:	<1% of span (typically) in nominal temperature range <1,5% of span (maximum) in nominal temperature range
CE-conformity:	Pressure equipment directive: 2014/68/EU EMC-directive: 2014/30/EU EN 61326: Emission (Group 1, Class B) Noise immunity (table 2)
Shock resistance:	500 g according to IEC 60068-2-27 (mechanical shock)
Vibration resistance:	20 g according to IEC 60068-2-6 (vibration under resonance)

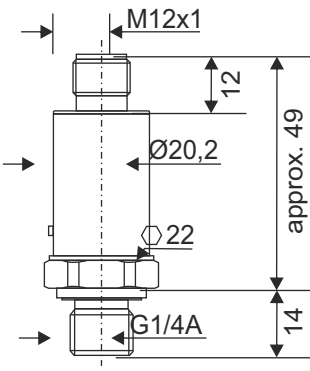
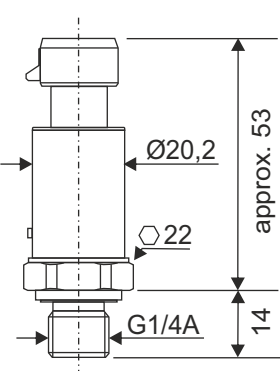
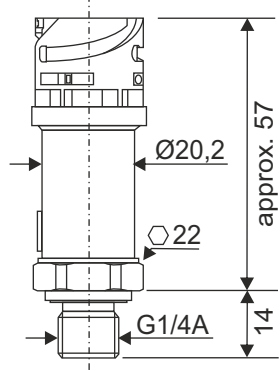
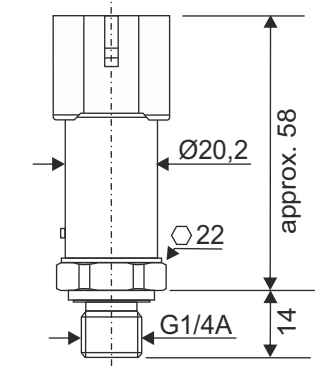
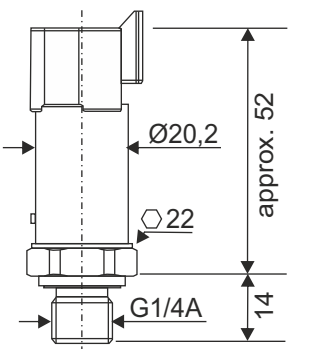
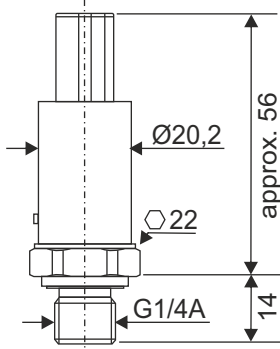
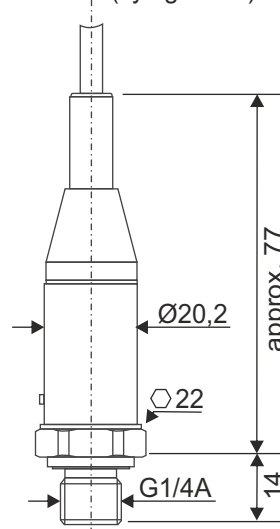
Mechanics

Material	Casing: plastic PTB Pressure connection: stainless steel, in contact with medium
Pressure connection:	G 1/4 A (DIN 3852-E) with sealing NBR (FKM) M14x1,5 DIN 3852-E 7/16-20UNF-2A (SAE J514 Fig. 34B) with Boss O-ring FKM 1/4 NPT ANSI/ASME B1.20.1 (see also page 3)
Electrical connection:	Circular connector M12x1, 4-pole Connector Metri Pack Series 150, 3-pole Bayonet connector per DIN 72585, 4-pole Connector AMP Superseal 1,5, 3-pole Connector Deutsch DT04-3P, 3-pole Cable (flying leads), TPE, length 0,5 or 2 m AMP Micro Quadlock, 3-pole (see also page 4)
Protection:	at least IP67 per IEC 60529
Weight:	approx. 70 g

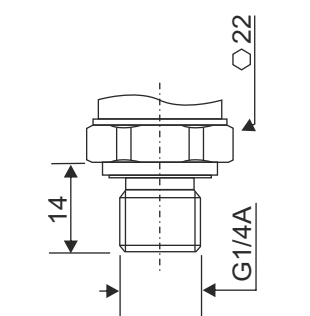
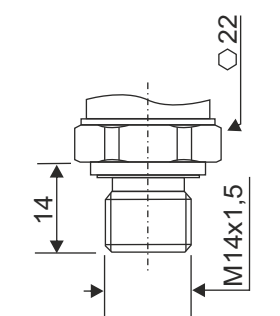
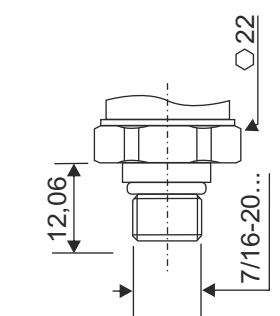
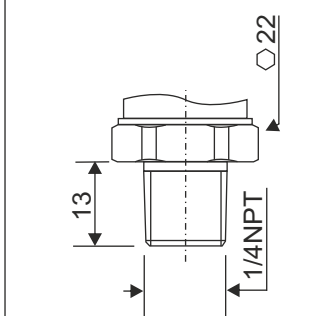
Pressure Table (in Bar)

Measurement range	60	100	160	250	400	600
Overpressure limit	120	200	320	500	800	1200
Burst pressure	550	800	1000	1200	1700	2400

● **Dimensions (in mm)**

<p>Circular connector M12x1</p> 	<p>Connector Metri Pack Series 150</p> 	<p>Bayonet connector per DIN 72585</p> 	<p>Connector AMP Superseal 1.5</p> 
<p>Connector Deutsch DT04-3P</p> 	<p>AMP Micro Quadlock</p> 	<p>Cable (flying leads)</p> 	

● **Pressure Connection (in mm)**

<p>G1/4 DIN 3852-E with sealing NBR (FKM)</p>	<p>M14x1,5 DIN 3852-E</p>	<p>7/16-20 UNF-2A SAE J514 Fig. 34B with Boss O-ring FKM</p>	<p>1/4NPT ANSI/ASME B1.20.1</p>
			

CDS system: reduced pressure channel diameter for damping of pressure peaks and against cavitation.
For installation and safety instructions see operating manual.

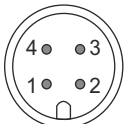
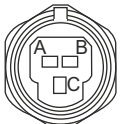
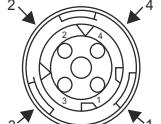

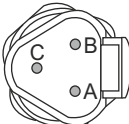
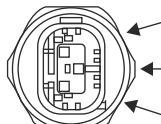
● **Order Code**

U B X X X X X X - X X X

Pressure:	Relative pressure	0																			
Contact with medium:	Stainless steel	0																			
Output:	4...20 mA		0																		
	1...5 V			1																	
	0...10 V				2																
	0,5...4,5 V					3															
Process connection:	G1/4 A (DIN 3852-E)						0														
	M14x1,5 (DIN 3852-E)							1													
	7/16-20UNF-2A								2												
	1/4"NPT									3											
Electrical connection:	M12x1										0										
	Metri Pack Series 150											1									
	Bayonet												2								
	AMP Superseal 1,5													3							
	Deutsch DT04-3P														4						
	Cable															5					
	AMP Micro Quadlock																6				
Temperature medium:	-40...+125 °C																			0	
Pressure range:¹⁾	(please specify)																			X	
Other:	Special model																				0

1) Pressure range: 5 = 0...60 / 6 = 0...100 / 7 = 0...160 / 8 = 0...250 / 9 = 0...400 / A = 0...600 bar

● **Electrical Connection**

	M12x1, 4-pole	Metri Pack, Serie 150, 3-pole	Bayonet 4-pole	AMP Superseal 1,5 3-pole
4...20 mA (2-wire)	U+ = 1 U- = 3	U+ = B U- = A	U+ = 1 U- = 2	U+ = 3 U- = 1
1...5 V / 0...10 V / 0,5...4,5 V (all 3-wire)	U+ = 1 U- = 3 S+ = 4	U+ = B U- = A S+ = C	U+ = 1 U- = 2 S+ = 3	U+ = 3 U- = 1 S+ = 2
				
Protection class	IP67	IP67	IP69K	IP67
	Deutsch DT04-3P 3-pole	Cable	AMP Micro Quadlock 3-pole	
4...20 mA (2-wire)	U+ = A U- = B	U+ = brown U- = green	U+ = 3 U- = 1	Note: The specified protection class only applies in plugged condition with mating plugs of the corresponding protection class.
1...5 V / 0...10 V / 0,5...4,5 V (all 3-wire)	U+ = A U- = B S+ = C	U+ = brown U- = green S+ = white	U+ = 3 U- = 1 S+ = 2	
		0,75 mm ² with wire end ferrules Ø cable: 6,6 mm		
Protection class	IP67	IP69K	IP67	

Legend: 2-wire: 2 lines are used for the power supply. The supply current provides the measurement signal.
 3-wire: 2 lines are used for the power supply. One line is used for the measurement signal.
 U+ = Positive supply connection U- = Negative supply connection
 S+ = Positive measurement connection