

Pressure transmitters



- The pressure transmitters shown in this catalog are only a small range of our possibilities
- High overpressure safety for use in mobile hydraulics
- Long life time even with high pressure change rates
- Wetted parts made of stainless steel to ensure problem-free medium compatibility
- Highest accuracy and reliability for safe process monitoring
- Customized versions on request

Technical data



Type	0605	0610	0620
Output signal:	0.5 – 4.5 V radiometrically	0 – 10 V (3-wire)	4 – 20 mA (2-wire)
Supply voltage U_b :	5 VDC \pm 10 %	12 – 32 VDC	12 – 32 VDC
Maximum load:	\geq 4.7 k Ω	\geq 4.7 k Ω	$\leq (U_b - 12 \text{ V}) / 20 \text{ mA}$
Current consumption (without load):	\leq 10 mA	\leq 15 mA	–
Pressure ranges p_{range} :	-1 – 0 bar; 0 – 10 bar; 0 – 16 bar; 0 – 100 bar; 0 – 250 bar; 0 – 400 bar; 0 – 600 bar; 0 – 1000 bar		
Accuracy:	\pm 0.5 % full scale at room temperature		
Response time (10 – 90 %):	max. 2 ms		
Temperature range:	-40 °C – +125 °C	-40 °C – +105 °C	-40 °C – +100 °C
Temperature drift:	approx. \pm 0.2 % / 10 K		
Mechanical life expectancy:	10^7 pulses up to nominal p_{range}		
Overpressure safety ¹⁾ :	2 x p_{range} up to 350 bar; 1.5 x p_{range} up to 600 bar; 1.2 x p_{range} at 1000 bar		
Bursting pressure ¹⁾ :	3 x p_{range} up to 350 bar; 2 x p_{range} up to 600 bar; 1.5 x p_{range} at 1000 bar		
Materials:	Body material: 1.4301 / AISI 304 Diaphragm: < 500 bar: 1.4301 / AISI 304 Diaphragm: > 500 bar: 1.4542 / AISI 630		
Reverse polarity protection:	built-in		
Protection according to DIN EN 60 529:	IP67 for M12x1, DIN 72585, AMP Superseal and Deutsch DT04-4P IP65 for DIN EN 175301-803, AMP JT and cable connection		
Weight:	approx. 120 g (DIN EN 175301 approx. 130 g)		
Vibration resistance:	20 g at 4 – 2000 Hz sine		
Max. length of connection cable:	30 m / 100 ft		
EMC Standards:	DIN EN 61000-6-2, DIN EN 61000-6-3		

CE marking

SUCO pressure transmitters are covered by the EMV-directive 89/336/EC.

An EC Declaration of Conformity has been issued for these pressure transmitters and is on file at our offices. The corresponding switches bear the CE mark in our catalogue.

Degree of protection IP65

The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the electrical connection complies with regulations other than those stated and whether it can be used for special applications which could not be foreseen by us.

Oxygen warning!

When using oxygen, the relevant safety regulations must be observed. In addition, we recommend that a maximum operating pressure of 10 bar must not be exceeded.



¹⁾ Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

0605/0610/0620

Technical explanations



* DIN EN 175301-803-A socket device included into the scope of delivery.

DIN EN 175301-803-A

0605+0610	0620
1: U _{out}	1: nc
2: Gnd	2: I _{out}
3: Uv+	3: Uv+

x ≈ 88 mm*
d = Ø 22 mm
Order number: 001

M12

0605+0610	0620
1: Uv+	1: Uv+
2: U _{out}	2: nc
3: Gnd	3: I _{out}
4: nc	4: nc

x ≈ 61 mm
d = Ø 22 mm
Order number: 002

AMP Junior-Timer

0605+0610	0620
1: Uv+	1: Uv+
2: U _{out}	2: nc
3: Gnd	3: I _{out}

x ≈ 57 mm
d = Ø 22 mm
Order number: 003

DIN 72585-A1-4.1

0605+0610	0620
1: Uv+	1: Uv+
2: Gnd	2: nc
3: U _{out}	3: I _{out}
4: nc	4: nc

x ≈ 61 mm
d = Ø 27 mm
Order number: 004

AMP Superseal

0605+0610	0620
1: U _{out}	1: nc
2: Gnd	2: I _{out}
3: Uv+	3: Uv+

x ≈ 70 mm
d = Ø 22 mm
Order number: 007

DEUTSCH DT04-4P

0605+0610	0620
1: Gnd	1: I _{out}
2: Uv+	2: Uv+
3: nc	3: nc
4: U _{out}	4: nc

x ≈ 70 mm
d = Ø 22 mm
Order number: 008

Order number: 03

Order number: 41

Order number: 31

Order number: 13

Order number: 42

Order number: 20

Order number: 09

Order number: 04

Order number: 21



0605/0610/0620

Order matrix for pressure transmitters

	Type	Pressure range	Pressure connector	Diaphragm	Electrical connector
Type	↓	↓	↓		↓
0.5 – 4.5 V radiometrically	0605				
0 – 10 V 3-wire	0610				
4 – 20 mA 2-wire	0620				
Pressure range		↓			
-1 – 0 bar Vacuum		356			
0 – 10 bar		480			
0 – 16 bar		509			
0 – 100 bar		481			
0 – 250 bar		482			
0 – 400 bar		501			
0 – 600 bar		483			
0 – 1000 bar		484			
Pressure connector			↓		
G 1/4 - DIN 3852-E			41		
G 1/4 - DIN 3852-A (not for vacuum)			03		
NPT 1/8 (up to 250 bar)			04		
NPT 1/4			09		
M 10 x 1 cyl. (up to 250 bar)			13		
7 / 16 – 20 UNF			20		
9 / 16 – 18 UNF			21		
female thread – 7 / 16 – 20 UNF (from 100 bar)			31		
M 14 x 1.5 – DIN 3852-E			42		
Electrical plug					↓
DIN EN 175301-803-A (DIN 43 650-A)					001
M 12					002
AMP – Junior-Timer					003
DIN 72585-A1- 4.1 (Bayonet)					004
AMP Superseal					007
DEUTSCH DT04-4P					008
Cable connection					105
Order number:	↓	↓	↓		↓
Order number:	06XX	—	XXX	XX	— 0 — XXX

Customer specified versions on request.

Accessories (not included)

Socket device M12x1 straight



Order number:
1-6-00-652-016

Socket device M12x1 angular



Order number:
1-6-00-652-017