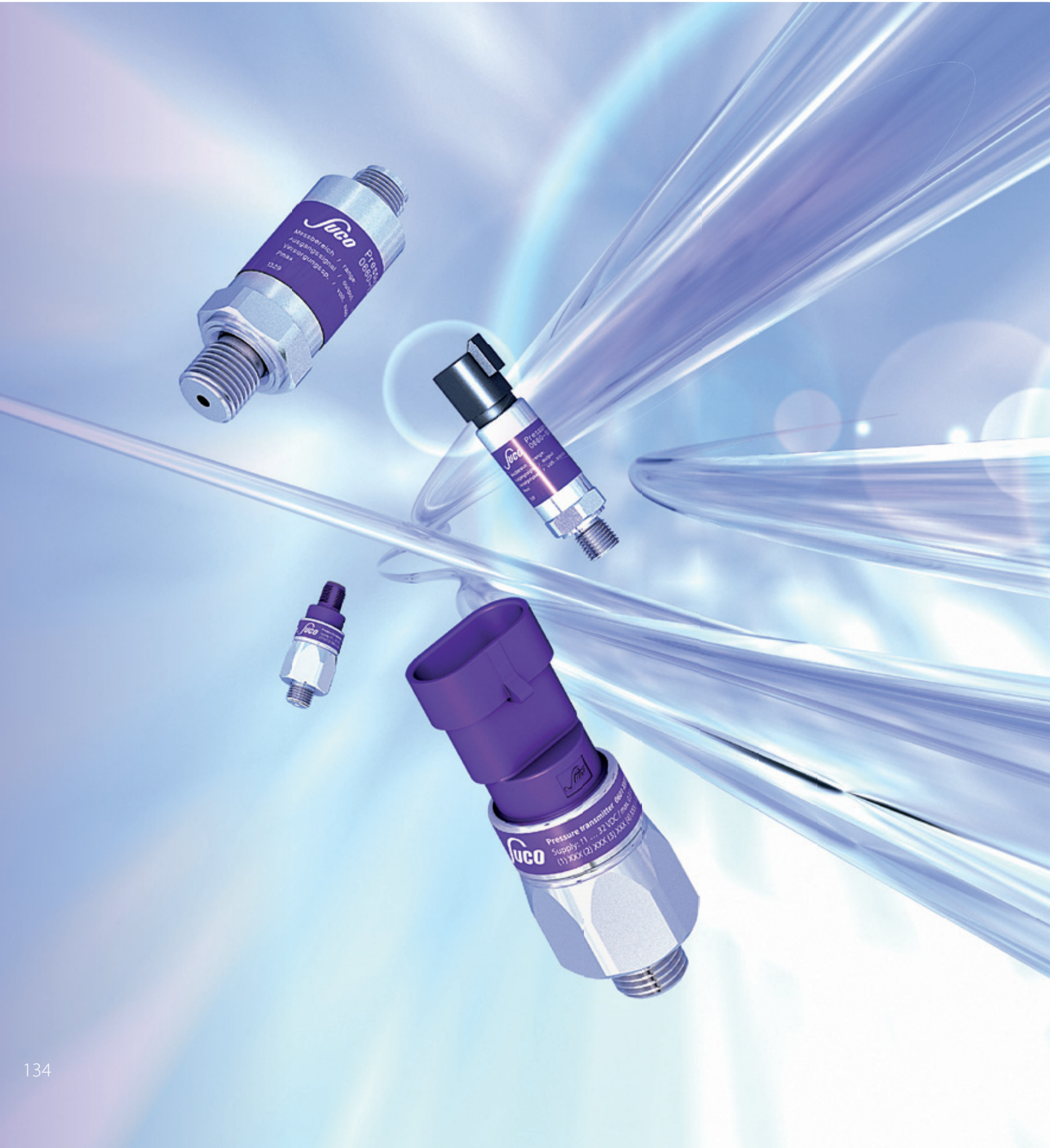


T. Pressure Transmitters



Pressure transmitters, Performance series

hex 24



- Very attractively priced electronic pressure transmitters
- High overpressure protection (up to 2 x)
- Small, compact transmitters
- Broad diversity of electronic and mechanical connection options
- High level of adaptability to your requirements (custom solutions)
- Ceramic sensor in thick film technology
- Housing made of stainless steel (1.4305), others on request

Pressure transmitters, Performance series

Technical details

Type:	0601	0602
Output signal:	0 - 10 V (3-wire)	4 - 20 mA (2-wire)
Supply voltage U_{V+} :	11 - 32 VDC with reverse voltage protection	9.6 - 32 VDC with reverse voltage protection
Permissible load apparent ohmic resistance:	$\geq 4.7 \text{ k}\Omega$	$\leq (U_{V+} - 10 \text{ V}) / 20 \text{ mA}$
Idle power consumption:	approx. 5 mA	< 4 mA

Type:	0601 / 0602						
Standard pressure ranges p_{nom} :	0 - 2 bar	0 - 4 bar	0 - 10 bar	0 - 16 bar	0 - 40 bar	0 - 100 bar	0 - 250 bar
Overpressure protection $p_u^{1)}$:	4 bar	10 bar	20 bar	40 bar	100 bar	150 bar	375 bar
Burst pressure ¹⁾ :	8 bar	20 bar	35 bar	60 bar	140 bar	300 bar	500 bar
Mechanical life expectancy:	5,000,000 pulsations at rise rates to 1 bar/ms at p_{nom}						
Pressure rise:	$\leq 1 \text{ bar/ms}$						
Accuracy:	$\leq \pm 1 \%$ full scale (FS) at room temperature, $\pm 0.5 \%$ BFSL						
Long term stability:	$\pm 0.3 \%$ FS p. a.						
Repeatability ²⁾ :	$\pm 0.1 \%$ FS						
Temperature error ²⁾ :	$\leq \pm 0.04 \%$ of full scale (FS) / °C						
Compensated temperature range:	0 °C ... +70 °C (32 °F ... 158 °F)						
Temperature range ambient:	-30 °C ... +100 °C (-22 °F ... 212 °F)						
Temperature range media:	with TPE seal: -30 °C ... +110 °C (-22 °F ... +230 °F)						
	with NBR seal: -30 °C ... +100 °C (-22 °F ... +212 °F)						
	with EPDM seal: -30 °C ... +125 °C (-22 °F ... +257 °F)						
	with FKM seal: -20 °C ... +125 °C (-4 °F ... +257 °F)						
Wetted parts material:	Housing:	Stainless steel 1.4305 (AISI 303)					
	Measuring cell:	Ceramic					
	Seal material:	TPE, NBR, EPDM or FKM					
Insulation resistance:	> 100 M Ω (500 VDC, $R_i > 42 \Omega$)						
Response time 10 - 90 %:	$\leq 2 \text{ ms}$						
Vibration resistance:	20 g; at 4 ... 2000 Hz sine wave; DIN EN 60068-2-6						
Shock resistance:	half sine wave 500 m/s ² ; 11 ms; DIN EN 60068-2-27						
Protection class:	IP65: DIN EN 175301-803-A, IP67: M12x1, AMP Superseal 1.5 [®] , cable connector IP67 and IP6K9K: Bayonet ISO 15170-A1-4.1, Deutsch DT04-3P						
Electromagnetic compatibility:	EMC 2014/30/EU, EN 61000-6-2:2005, EN 61000-6-3:2007						
Max. length of connection cable:	30 m						
Protection against reverse polarity, short-circuit and overvoltage:	Built-in						
Cable output thread size:	For DIN EN 175301: Pg9 (outside diameter of cable 6 to 9 mm)						
Weight:	approx. 80 g (DIN EN 175301 approx. 110 g)						

¹⁾ Static pressure, dynamic pressure 30 to 50% lower. Values refer to the hydraulic or pneumatic part of the pressure transmitter.

²⁾ Within the compensated temperature range



DIN EN 17530-803-A

Pin	0601	0602
1	Uv+	Uv+
2	Gnd	I _{out}
3	U _{out}	nc

IP65

x ~ 60 mm without coupler socket
x ~ 77 mm without coupler socket

Order number: 013

M12-DINEN61076-2-101 A

Pin	0601	0602
1	Uv+	Uv+
2	U _{out}	nc
3	Gnd	I _{out}
4	nc	nc

IP67

x ~ 54 mm

Order number: 002

ISO 15170 - A1 - 4.1

Pin	0601	0602
1	Uv+	Uv+
2	Gnd	I _{out}
3	U _{out}	nc
4	nc	nc

IP67, IP6K9K

x ~ 56 mm

Order number: 015

AMP Superseal 1.5®

Pin	0601	0602
1	U _{out}	nc
2	Gnd	I _{out}
3	Uv+	Uv+

IP67

x ~ 61 mm

Order number: 007

Deutsch DT04 - 3P

Pin	0601	0602
A	Uv+	Uv+
B	Gnd	I _{out}
C	U _{out}	nc

IP67, IP6K9K

x ~ 61 mm

Order number: 014

Thread code: 41

Thread code: 09

0601 / 0602

Order matrix for pressure transmitters

T.1

hex 24
Performance



	Type	Pressure range	Pressure connector	Seal material	Electrical connection
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0 - 10 V, 3-wire	0601
4 - 20 mA, 2-wire	0602

Max. Overpressure¹⁾ **Burst pressure** **Pressure range**

4 bar	8 bar	0 - 2 bar (approx. 29 PSI)	200
10 bar	20 bar	0 - 4 bar (approx. 58 PSI)	400
20 bar	35 bar	0 - 10 bar (approx. 145 PSI)	101
40 bar	60 bar	0 - 16 bar (approx. 230 PSI)	161
100 bar	140 bar	0 - 40 bar (approx. 580 PSI)	401
150 bar	300 bar	0 - 100 bar (approx. 1.450 PSI)	102
375 bar	500 bar	0 - 250 bar (approx. 3.625 PSI)	252

Pressure connection

G 1/4 – DIN EN ISO 1179-2 (DIN 3852-11), form E	41
NTP 1/4	09

Seal material - Application areas

NBR	Hydraulic/machine oil, heating oil, air, nitrogen, etc.	1
EPDM	Brake fluid, water, acetylene, hydrogen, etc.	2
FKM	Hydraulic fluids (HFA, HFB, HFD), petrol/gasoline, etc.	3
TPE	Hydraulic/machine oil, water, air, nitrogen, acetylene, etc.	7

DIN EN 175301-803-A (DIN 43650-A); socket device included	013
M 12x1 - DIN EN 61076-2-101-A	002
Bayonet ISO 15170-A1-4.1 (DIN 72585-A1-4.1)	015
AMP Superseal 1.5®	007
Deutsch DT04-3P	014



Order number:	06XX	XXX	XX	X	XXX
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¹⁾ Static pressure, dynamic pressure 30 to 50% lower. Values refer to the hydraulic or pneumatic part of the pressure transmitter.

