



OEM Pressure Transducer 0606

eCONOMY



OVERVIEW

Highlights

- High quality product „Made in Germany“
- Excellent price/performance ratio
- Compact and solid design
- All welded design, no elastomeric seal
- Overvoltage protection up to 26 VDC
- Diagnostic function according fail-safe
- Up to 6x overpressure safety
- Very low temperature drift in
temperature range from -40°C to +125°C

Design

Deutsch DT04 - 3P



SIZE COMPARISON

e.g. Deutsch DT04 - 3P



TECHNICAL DATA (1/3)

0606 – OEM Pressure Transducer

Output signal	0.5 ... 4.5 V ratiometric (3-wire)						
Supply voltage U_B	5 VDC $\pm$ 10% (max. 6.5 VDC)						
Idle current consumption I	typ. 8.5 mA (max. 13 mA)						
Overvoltage protection	18 VDC ($\leq$ 2h at 140°C) / 26 VDC ($\leq$ 1 min)						
Pressure ranges p_{nom}	0 – 40	0 – 60	0 - 80	0 - 100	0 - 250	0 - 400	0 - 600
Overpressure protection P_U ¹⁾	250	400	500	600	750	750	800
Burst pressure ¹⁾	400	600	800	1000	1200	1500	1800
Response time 10 – 90 %	< 1 ms						



1) Static pressure. Dynamic value 30 - 50% lower.

Values refer to the hydraulic / pneumatic part of the pressure transducer.

TECHNICAL DATA (2/3)

0606 – OEM Pressure Transducer

Max. pressure change rate	5,000 bar/s at p_{nom}
Mechanical life expectancy	> 10,000,000 pulsations at rise rates to 5,000 bar/s at p_{nom}
Accuracy ²⁾	± 0.5 % of full scale (FS) at room temperature ± 0.25 % BFSL
Long-term stability	± 0.2 % (<100 bar) / ± 0.1 % of full scale (FS) per year
Repeatability ³⁾	± 0.2 % (<100 bar) / ± 0.1 % of full scale (FS)
Temperature error ³⁾	± 0.0125 % of full scale (FS) / °C
Weight	35 – 55 g
IP protection class	IPxx according specification, only when plugged in, otherwise IP00



2) For pressure range 0 - 600 bar ± 1.0 % full scale (FS) at room temperature, ± 0.5 % BFSL.

3) Within the compensated temperature range.

TECHNICAL DATA (3/3)

0606 – OEM Pressure Transducer

Comp. temperature range		0 °C ... +100 °C
Ambient temperature range		-40 °C ... +125 °C
Media temperature range		-40 °C ... +125 °C
Wetted parts	Housing	Stainless steel 1.4306 / AISI 304L
	Measuring cell	Stainless steel 1.4542 / AISI 630 / 17-4PH®
Vibration resistance		20 ... 2,500 Hz (15 ... 45 g) according to IEC 60068-2-6
Shock resistance		500 m²/s half sine (11 ms) according to IEC 60068-2-27
Electromagnetic compatibility (EMC) ⁴⁾		EN 61000-4-2: 2009, EN 61000-4-3:2006 + A1:2008 + A2:2010, EN 61000-4-4: 2012, EN 61000-4-6: 2014, EN 61000-4-8: 2009, EN 55011: 2018

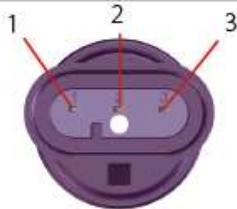


4) If necessary for a specific application, surge protection must be provided by the user.

ELECTRICAL CONNECTIONS



AMP Superseal 1.5



Pin	0606
1	U_{out}
2	Gnd
3	U_{V+}
IP67	
$x \sim 36 \text{ mm}$	
Connection code: 007	



Deutsch DT04 - 4P



Pin	0606
1	Gnd
2	U_{V+}
3	nc
4	U_{out}
IP67, IP6K9K	
$x \sim 38 \text{ mm}$	
Connection code: 008	



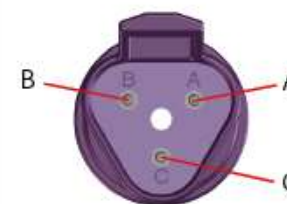
Packard MetriPack 150



Pin	0606
1	Gnd
2	U_{V+}
3	U_{out}
IP67	
$x \sim 44 \text{ mm}$	
Connection code: 009	



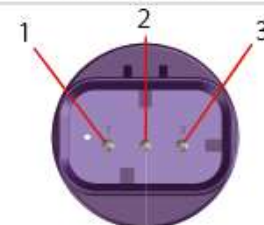
Deutsch DT04 - 3P



Pin	0606
A	U_{V+}
B	Gnd
C	U_{out}
IP67, IP6K9K	
$x \sim 39 \text{ mm}$	
Connection code: 010	

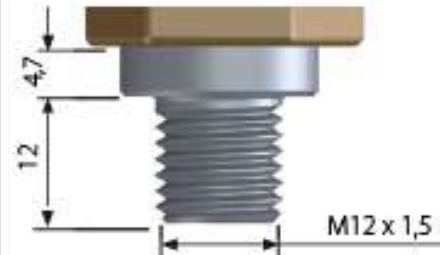


AMPSEAL 16



Pin	0606
1	U_{V+}
2	Gnd
3	U_{out}
IP67	
$x \sim 37 \text{ mm}$	
Connection code: 016	

THREAD CONNECTIONS

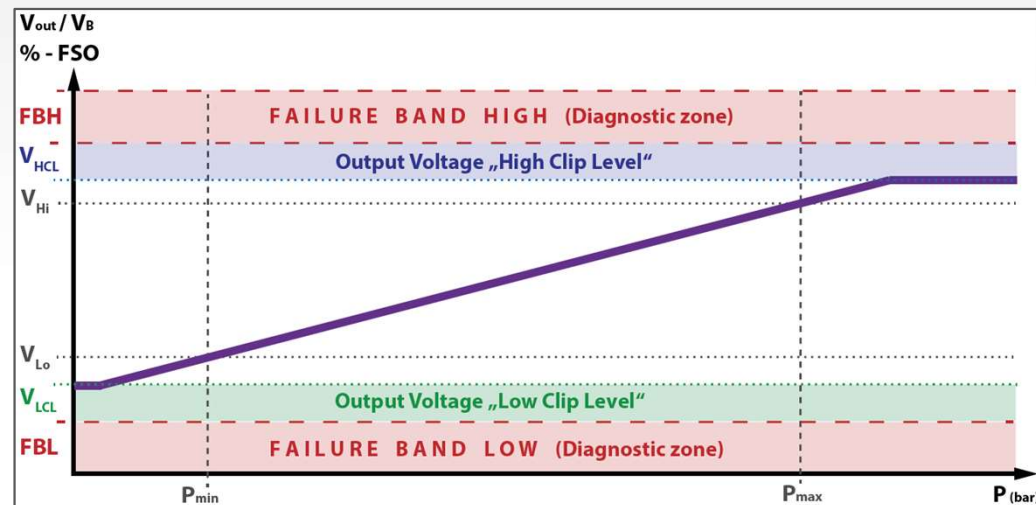
G 1/4 (1179-2 / DIN 3852-E)Thread code: **41****G 3/8 (ISO 1179-2 / DIN 3852-A)**Thread code: **66****NPT 1/4**Thread code: **09****9/16-18 UNF**Thread code: **21****M12 x 1,5**Thread code: **02**

DIAGNOSTIC FUNCTION

Failure bands high & low (FBH & FBL)

Areas of the output signal to which the pressure transmitter transitions in the event of a fault and thus assumes a safe state according "fail-safe".

A control logic can thus detect faults in the sensor or the connecting line.



Output voltage “Low Clip Level” (V_{LCL}) | Output voltage “High Clip Level” (V_{HCL})

Pressures below the lower limit (V_{LCL}) and above the upper limit (V_{HCL}) are sent as a constant output signal according to the set values.

Without limiting, the transducer would output up to the failure band limit in the event of overpressure or underpressure.

ORDER NUMBER SYSTEM

0 – 40 bar	401	0 – 600 PSI	602
0 – 60 bar	601	0 – 1,000 PSI	103
0 – 80 bar	801	0 – 1,200 PSI	123
0 – 100 bar	102	0 – 1,500 PSI	153
0 – 250 bar	252	0 – 3,000 PSI	303
0 – 400 bar	402	0 – 6,000 PSI	603
0 – 600 bar	602	0 – 8,700 PSI	873

M12x1,5	02
NPT 1/4	09
9/16-18 UNF	21
G 1/4 DIN EN ISO 1179-2, Form E	41
G 3/8 DIN EN ISO 1179-2, Form E	66

bar	B
PSI	P

AMP Superseal 1.5	007
DEUTSCH DT04-4P	008
Packard MetriPack 150	009
DEUTSCH DT04-3P	010
AMPSEAL 16	016

Order number	0606	-	XXX	-	XX	-	X	-	0XX
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