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# SUCO - 0601/0602 PRESSURE SENSOR

Performance series

0601102413002
0-10V, 0..100 bar, G1/4-E, FKM, M12



- Measuring range up to 100 bar
- Ceramic sensor
- Small and compact
- Stainless steel housing

### PRODUCT DESCRIPTION

The SUCO 0601 and 0602 pressure sensors form a compact and cost-effective "Performance Series" pressure transmitter range. They utilise a ceramic thick-film sensing element housed in stainless steel (AISI 303), offering high durability and media compatibility. Standard pressure ranges include, and up to 250 bar, with overpressure protection typically up to twice the nominal and burst resistance as high as 4× nominal. These sensors achieve ±1 % FS accuracy (±0.5 % BFSL), with excellent repeatability (±0.1 %) and long-term stability (<0.3 %/year), and can handle rapid pressure spikes up to 1 000 bar/s. They are able to withstand vibration, shock, IP65–67 (and optional IP6K9K) ratings, and protected against reverse polarity, over-voltage, and short circuits. Multiple connector types (DIN or M12, AMP Superseal, Deutsch) and thread options (G¼", ¼"NPT etc.) enable versatile installations.
The 0601/0602 sensors are ideal for integration into mobile hydraulics, power-pack systems, industrial pumps, and off-highway equipment where space and cost matter. With high overpressure protection and fast response (<2 ms), they act effectively as safety interlocks, enabling rapid shutdowns or alerts upon pressure anomalies. Their durable stainless-steel construction and IP-rated sealing make them suitable for harsh environments such as agricultural machinery, construction plant, and marine systems. The choice between voltage (0–10 V) or current (4–20 mA) outputs enables compatibility with PLC/SCADA infrastructure, control modules, or datalogging applications. Optional configurations such as plasma-cleaned diaphragms for oxygen systems enhance their versatility, making them suitable for applications in medical gas monitoring or specialty process systems.

# TECHNICAL DATA

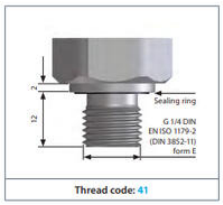
| | |
|---|---|
| **Accuracy** | ±1% FS |
| **Burst pressure** | 300 bar |
| **Connection** | G1/4-E |
| **Electrical connection** | M12x1 4-pole |
| **IP class** | IP67 |
| **Long term stability** | ±0.3% FS p.a. |
| **Material of body** | Stainless steel 1.4305 |
| **Material of wetted parts** | Stainless steel 1.4305, Ceramic, FKM |
| **Mechanical life expectancy** | 5 million cycles |
| **Overpressure protection** | 200 bar |
| **Pressure range max** | 100 bar |
| **Pressure range min** | 0 bar |
| **Pressure reference** | Gauge |

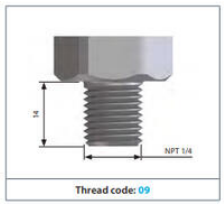
| | |
|---|---|
| **Pressure rise** | 1 bar/ms |
| **Repeatability** | ±0.1% FS |
| **Response time** | 2 ms |
| **Shock resistance** | 500m / s²; 11 ms half sine wave; DIN EN 60068-2-27 |
| **Signal type** | 0-10 V |
| **Supply voltage dc max** | 32 V DC |
| **Supply voltage dc min** | 11 V DC |
| **Temperature ambient from** | -30 °C |
| **Temperature ambient to** | 100 °C |
| **Temperature error** | ±0.04% FS/°C |
| **Temperature of media from** | -20 °C |
| **Temperature of media to** | 125 °C |
| **Vibration resistance** | 20g: 4..2000 Hz sine wave, DIN EN 60068-2-6 |
| **Weight** | 80 g |















**DIN EN 175301-803-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 with coupler socket

**Order number:** 013

**M 12 – DIN EN 61076-2-101 A**



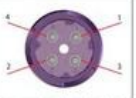

| Pin | 0601 | 0602 |
|---|---|---|
| 1 | Uv+ | Uv+ |
| 2 | $U_{out}$ | nc* |
| 3 | Gnd | $I_{out}$ |
| 4 | nc* | nc* |

IP67

**x** ~ 54 mm

**Order number:** 002

**ISO 15170-A1-4.1**

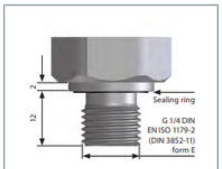



| Pin | 0601 | 0602 |
|---|---|---|
| 1 | Uv+ | Uv+ |
| 2 | Gnd | nc* |
| 3 | $U_{out}$ | $I_{out}$ |
| 4 | nc* | nc* |

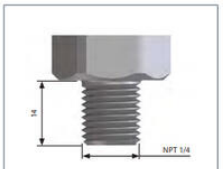
IP67, IP6K9K

**x** ~ 56 mm

**Order number:** 004




**Thread code:** 41




**Thread code:** 09

**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 | nc* |
| C | $U_{out}$ | $I_{out}$ |

IP67, IP6K9K

**x** ~ 61 mm

**Order number:** 010