# SUCO PRESSURE TRANSMITTER WITH CERAMIC SENSOR

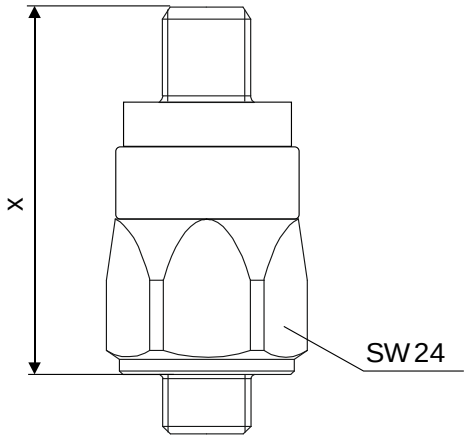
## SW 24 PERFORMANCE

### Ceramic sensor in thick film technology
### Case made of stainless steel

Attractively priced electronic pressure transmitter,
high overpressure protection (up to 2x),
small and compact transmitter,
broad diversity of electronic and mechanical connection options

| **Type** | **0601** | | | **0602** | | |
|---|---|---|---|---|---|---|
| **Output signal** | 0-10 V (3-wire) | | | 4-20 mA (2-wire) | | |
| **Supply voltage $U_B$** | 11-32 VDC | | | 9,6-32 VDC | | |
| **Permissible loadapparat ohmic resistance** | ≥4,7 kΩ | | | ≤($U_b$-10V) 20 mA | | |
| **Idle power consumption** | approx. 5 mA | | | < 4 mA | | |
| **Standard pressure ranges** | 0-2 bar | 0-4 bar | 0-10 bar | 0-16 bar | 0-40 bar | 0-100 bar |
| **Overpressure protection** | 4 bar | 10 bar | 20 bar | 40 bar | 100 bar | 200 bar |
| **Burst pressure** | 8 bar | 20 bar | 35 bar | 60 bar | 140 bar | 300 bar |
| | Static pressure, dynamic pressure 30 to 50 % lower.<br>Values refer to the hydraulic or pneumatic part of the pressure transmitter. | | | | | |
| **Mechanical life expectancy** | 5 Mio pulsations at rise rates to 1 bar/ms at standard pressure ranges | | | | | |
| **Pressure rice** | ≤ 1 bar / ms | | | | | |
| **Accuracy** | ≤±1 % full scale (FS) at room temperature, ± 0,5% BFSL | | | | | |
| **Long term stability** | ± 0,3% full scale (FS) p.a. | | | | | |
| **Repeatability** | ± 0,1%full scale (FS )(within the compensated temperature range) | | | | | |
| **Temperature error** | ≤±0,04% full scale (FS) / °C (within the compensated temperature range) | | | | | |
| **Comp. 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 NBR seal: -30°C…+100°C (-22°F…+212°F)<br>with EPDM seal: -30°C…+125°C (-22°F…+257°F)<br>with FKM seal: -20°C…+125°C (-4°F…+257°F) | | | | | |
| **Case material** | Stainless steel 1.4305 (AISI 303) | | | | | |
| **Thread** | G ¼ DIN 3852, option: ¼ NPT | | | | | |
| **Measuring cell material** | Ceramic | | | | | |
| **Seal material** | NBR, EPDM or FKM | | | | | |
| **Insulation resistance** | > 100 MΩ (500 VDC, Ri > 42 Ω) | | | | | |
| **Response time 10-90 %** | ≤ 2 ms | | | | | |
| **Vibration resistance** | 20 g; at 4…2000 Hz sine wave; DIN EN 60068-2-6 | | | | | |
| **Shock resistance** | Halfe sine wave 500 m/s², 11 ms; DIN EN 60068-2-27 | | | | | |
| **Protection class** | IP65: DIN EN 175301-803-A<br>IP67: M12x1, AMP-Superseal 1.5®, cable connector<br>IP67 and IP6K9K: Bayonet ISO 15170-A1-4.1, Deutsch DT04-3P | | | | | |
| **Electromagnetic compatibility** | EMV 2014/30/EU, EN 61000-6-2:2005, EN 61000-6-3:2007 | | | | | |
| **Max. length of connect. cable** | 30 m | | | | | |
| **Protection** | Protection against reverse polarity, short-circuit and overvoltage built-in | | | | | |
| **Cable output thread size** | For DIN EN 175301: Pg9 (outside diameter of cable: 6-9 mm) | | | | | |
| **Weight** | approx. 80 g (DIN EN 175301 approx. 110 g) | | | | | |

## Dimensions and electrical connectors




### Coupler socket
**DIN EN 175301-803-A**

IP65

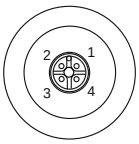
**x** ~ 60 mm without coupler socket
**x** ~ 77 mm with coupler socket


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

**M12-DIN EN 61076-2-101 A**

IP67

**x** ~ 54 mm

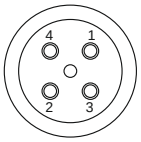



| PIN | 0601 | 0602 |
|---|---|---|
| 1 | Uv+ | Uv+ |
| 2 | $U_{out}$ | nc |
| 3 | Gnd | $I_{out}$ |
| 4 | nc | nc |

**Bayonet ISO 15170-A1-4.1**

IP67, IP6K9K

**x** ~ 56 mm

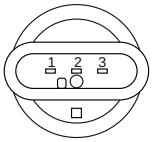



| PIN | 0601 | 0602 |
|---|---|---|
| 1 | Uv+ | Uv+ |
| 2 | Gnd | $I_{out}$ |
| 3 | $U_{out}$ | nc |
| 4 | nc | nc |

**AMP Superseal 1.5®**

IP67

**x** ~ 61 mm

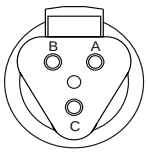



| PIN | 0601 | 0602 |
|---|---|---|
| 1 | $U_{out}$ | nc |
| 2 | Gnd | $I_{out}$ |
| 3 | Uv+ | Uv+ |

**Deutsch DT04-3P**

IP67, IP6K9K

**x** ~ 61 mm




| PIN | 0601 | 0602 |
|---|---|---|
| A | Uv+ | Uv+ |
| B | Gnd | $I_{out}$ |
| C | $U_{out}$ | nc |