



## SUCO - 0601/0602 PRESSURE SENSOR

Performance series



0602161411010  
4-20mA, 0..16 bar, G1/4-E, NBR, Deutsch DT04-3P

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



### PRODUCT DESCRIPTION

The SUCO 0601/0602 performance series pressure sensor is a small, compact and cost effective pressure monitoring solution. Offering six standard pressure ranges with options of four different electrical connectors a thread of G1/4 and 0-10V or 4-20mA outputs. The 06 series uses a ceramic sensor in thick film technology which is housed in a stainless steel body.

Common applications include mobile hydraulics and power packs.

### TECHNICAL DATA

|                            |                                      |
|----------------------------|--------------------------------------|
| Accuracy                   | ±1% FS                               |
| Burst pressure             | 60 bar                               |
| Connection                 | G1/4-E                               |
| Electrical connection      | Deutsch DT04-3P                      |
| IP class                   | IP67, IP6K9K                         |
| Long term stability        | ±0.3% FS p.a.                        |
| Material of body           | Stainless steel 1.4305               |
| Material of wetted parts   | Stainless steel 1.4305, Ceramic, NBR |
| Mechanical life expectancy | 5 million cycles                     |
| Overpressure protection    | 40 bar                               |
| Pressure range max         | 16 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 / s <sup>2</sup> ; 11 ms half sine wave; DIN EN 60068-2-27" |
| Signal type               | 4-20 mA   |
| Supply voltage dc max     | 32 V DC   |
| Supply voltage dc min     | 9,6 V DC  |
| Temperature ambient from  | -30 °C  |
| Temperature ambient to    | 100 °C  |
| Temperature error         | ±0.04% FS/°C  |
| Temperature of media from | -30 °C  |
| Temperature of media to   | 100 °C  |
| Weight                    | 80 g  |
| Vibration resistance      | 20g: 4..2000 Hz sine wave, DIN EN 60068-2-6                       |



| <b>DIN EN 175301-803-A</b><br> <table border="1"> <tr> <th>Pin</th> <th>0601</th> <th>0602</th> </tr> <tr> <td>1</td> <td>U<sub>ve</sub></td> <td>U<sub>ve</sub></td> </tr> <tr> <td>2</td> <td>Gnd</td> <td>I<sub>ue</sub></td> </tr> <tr> <td>3</td> <td>U<sub>ue</sub></td> <td>nc*</td> </tr> </table> <p>IP65</p> <p>x ~ 60 mm without coupler socket<br/>x ~ 77 mm with coupler socket</p> <p>Order number: 013</p> | Pin             | 0601            | 0602 | 1 | U <sub>ve</sub> | U <sub>ve</sub> | 2 | Gnd | I <sub>ue</sub> | 3 | U <sub>ue</sub> | nc*             | <b>M 12 – DIN EN 61076-2-101 A</b><br> <table border="1"> <tr> <th>Pin</th> <th>0601</th> <th>0602</th> </tr> <tr> <td>1</td> <td>U<sub>ve</sub></td> <td>U<sub>ve</sub></td> </tr> <tr> <td>2</td> <td>U<sub>ue</sub></td> <td>nc*</td> </tr> <tr> <td>3</td> <td>Gnd</td> <td>I<sub>ue</sub></td> </tr> <tr> <td>4</td> <td>nc*</td> <td>nc*</td> </tr> </table> <p>IP67</p> <p>x ~ 54 mm</p> <p>Order number: 002</p> | Pin | 0601 | 0602 | 1 | U <sub>ve</sub> | U <sub>ve</sub> | 2 | U <sub>ue</sub> | nc* | 3 | Gnd             | I <sub>ue</sub> | 4 | nc* | nc* | <b>ISO 15170-A1-4.1</b><br> <table border="1"> <tr> <th>Pin</th> <th>0601</th> <th>0602</th> </tr> <tr> <td>1</td> <td>U<sub>ve</sub></td> <td>U<sub>ve</sub></td> </tr> <tr> <td>2</td> <td>Gnd</td> <td>nc*</td> </tr> <tr> <td>3</td> <td>U<sub>ue</sub></td> <td>I<sub>ue</sub></td> </tr> <tr> <td>4</td> <td>nc*</td> <td>nc*</td> </tr> </table> <p>IP67, IP69K</p> <p>x ~ 56 mm</p> <p>Order number: 004</p> | Pin | 0601 | 0602 | 1 | U <sub>ve</sub> | U <sub>ve</sub> | 2 | Gnd | nc* | 3 | U <sub>ue</sub> | I <sub>ue</sub> | 4 | nc* | nc* |
|--|-----------------|-----------------|------|---|-----------------|-----------------|---|-----|-----------------|---|-----------------|-----------------|---|-----|------|------|---|-----------------|-----------------|---|-----------------|-----|---|-----------------|-----------------|---|-----|-----|---|-----|------|------|---|-----------------|-----------------|---|-----|-----|---|-----------------|-----------------|---|-----|-----|
| Pin  | 0601            | 0602            |      |   |                 |                 |   |     |                 |   |                 |                 |   |     |      |      |   |                 |                 |   |                 |     |   |                 |                 |   |     |     |   |     |      |      |   |                 |                 |   |     |     |   |                 |                 |   |     |     |
| 1  | U <sub>ve</sub> | U <sub>ve</sub> |      |   |                 |                 |   |     |                 |   |                 |                 |   |     |      |      |   |                 |                 |   |                 |     |   |                 |                 |   |     |     |   |     |      |      |   |                 |                 |   |     |     |   |                 |                 |   |     |     |
| 2  | Gnd             | I <sub>ue</sub> |      |   |                 |                 |   |     |                 |   |                 |                 |   |     |      |      |   |                 |                 |   |                 |     |   |                 |                 |   |     |     |   |     |      |      |   |                 |                 |   |     |     |   |                 |                 |   |     |     |
| 3  | U <sub>ue</sub> | nc*             |      |   |                 |                 |   |     |                 |   |                 |                 |   |     |      |      |   |                 |                 |   |                 |     |   |                 |                 |   |     |     |   |     |      |      |   |                 |                 |   |     |     |   |                 |                 |   |     |     |
| Pin  | 0601            | 0602            |      |   |                 |                 |   |     |                 |   |                 |                 |   |     |      |      |   |                 |                 |   |                 |     |   |                 |                 |   |     |     |   |     |      |      |   |                 |                 |   |     |     |   |                 |                 |   |     |     |
| 1  | U <sub>ve</sub> | U <sub>ve</sub> |      |   |                 |                 |   |     |                 |   |                 |                 |   |     |      |      |   |                 |                 |   |                 |     |   |                 |                 |   |     |     |   |     |      |      |   |                 |                 |   |     |     |   |                 |                 |   |     |     |
| 2  | U <sub>ue</sub> | nc*             |      |   |                 |                 |   |     |                 |   |                 |                 |   |     |      |      |   |                 |                 |   |                 |     |   |                 |                 |   |     |     |   |     |      |      |   |                 |                 |   |     |     |   |                 |                 |   |     |     |
| 3  | Gnd             | I <sub>ue</sub> |      |   |                 |                 |   |     |                 |   |                 |                 |   |     |      |      |   |                 |                 |   |                 |     |   |                 |                 |   |     |     |   |     |      |      |   |                 |                 |   |     |     |   |                 |                 |   |     |     |
| 4  | nc*             | nc*             |      |   |                 |                 |   |     |                 |   |                 |                 |   |     |      |      |   |                 |                 |   |                 |     |   |                 |                 |   |     |     |   |     |      |      |   |                 |                 |   |     |     |   |                 |                 |   |     |     |
| Pin  | 0601            | 0602            |      |   |                 |                 |   |     |                 |   |                 |                 |   |     |      |      |   |                 |                 |   |                 |     |   |                 |                 |   |     |     |   |     |      |      |   |                 |                 |   |     |     |   |                 |                 |   |     |     |
| 1  | U <sub>ve</sub> | U <sub>ve</sub> |      |   |                 |                 |   |     |                 |   |                 |                 |   |     |      |      |   |                 |                 |   |                 |     |   |                 |                 |   |     |     |   |     |      |      |   |                 |                 |   |     |     |   |                 |                 |   |     |     |
| 2  | Gnd             | nc*             |      |   |                 |                 |   |     |                 |   |                 |                 |   |     |      |      |   |                 |                 |   |                 |     |   |                 |                 |   |     |     |   |     |      |      |   |                 |                 |   |     |     |   |                 |                 |   |     |     |
| 3  | U <sub>ue</sub> | I <sub>ue</sub> |      |   |                 |                 |   |     |                 |   |                 |                 |   |     |      |      |   |                 |                 |   |                 |     |   |                 |                 |   |     |     |   |     |      |      |   |                 |                 |   |     |     |   |                 |                 |   |     |     |
| 4  | nc*             | nc*             |      |   |                 |                 |   |     |                 |   |                 |                 |   |     |      |      |   |                 |                 |   |                 |     |   |                 |                 |   |     |     |   |     |      |      |   |                 |                 |   |     |     |   |                 |                 |   |     |     |
| <b>AMP Superseal 1.5*</b><br> <table border="1"> <tr> <th>Pin</th> <th>0601</th> <th>0602</th> </tr> <tr> <td>1</td> <td>U<sub>ue</sub></td> <td>nc*</td> </tr> <tr> <td>2</td> <td>Gnd</td> <td>I<sub>ue</sub></td> </tr> <tr> <td>3</td> <td>U<sub>ve</sub></td> <td>U<sub>ve</sub></td> </tr> </table> <p>IP67</p> <p>x ~ 61 mm</p> <p>Order number: 007</p>   | Pin             | 0601            | 0602 | 1 | U <sub>ue</sub> | nc*             | 2 | Gnd | I <sub>ue</sub> | 3 | U <sub>ve</sub> | U <sub>ve</sub> | <b>Deutsch DT04-3P</b><br> <table border="1"> <tr> <th>Pin</th> <th>0601</th> <th>0602</th> </tr> <tr> <td>A</td> <td>U<sub>ve</sub></td> <td>U<sub>ve</sub></td> </tr> <tr> <td>B</td> <td>Gnd</td> <td>nc*</td> </tr> <tr> <td>C</td> <td>U<sub>ue</sub></td> <td>I<sub>ue</sub></td> </tr> </table> <p>IP67, IP69K</p> <p>x ~ 61 mm</p> <p>Order number: 010</p>  | Pin | 0601 | 0602 | A | U <sub>ve</sub> | U <sub>ve</sub> | B | Gnd             | nc* | C | U <sub>ue</sub> | I <sub>ue</sub> |   |     |     |   |     |      |      |   |                 |                 |   |     |     |   |                 |                 |   |     |     |
| Pin  | 0601            | 0602            |      |   |                 |                 |   |     |                 |   |                 |                 |   |     |      |      |   |                 |                 |   |                 |     |   |                 |                 |   |     |     |   |     |      |      |   |                 |                 |   |     |     |   |                 |                 |   |     |     |
| 1  | U <sub>ue</sub> | nc*             |      |   |                 |                 |   |     |                 |   |                 |                 |   |     |      |      |   |                 |                 |   |                 |     |   |                 |                 |   |     |     |   |     |      |      |   |                 |                 |   |     |     |   |                 |                 |   |     |     |
| 2  | Gnd             | I <sub>ue</sub> |      |   |                 |                 |   |     |                 |   |                 |                 |   |     |      |      |   |                 |                 |   |                 |     |   |                 |                 |   |     |     |   |     |      |      |   |                 |                 |   |     |     |   |                 |                 |   |     |     |
| 3  | U <sub>ve</sub> | U <sub>ve</sub> |      |   |                 |                 |   |     |                 |   |                 |                 |   |     |      |      |   |                 |                 |   |                 |     |   |                 |                 |   |     |     |   |     |      |      |   |                 |                 |   |     |     |   |                 |                 |   |     |     |
| Pin  | 0601            | 0602            |      |   |                 |                 |   |     |                 |   |                 |                 |   |     |      |      |   |                 |                 |   |                 |     |   |                 |                 |   |     |     |   |     |      |      |   |                 |                 |   |     |     |   |                 |                 |   |     |     |
| A  | U <sub>ve</sub> | U <sub>ve</sub> |      |   |                 |                 |   |     |                 |   |                 |                 |   |     |      |      |   |                 |                 |   |                 |     |   |                 |                 |   |     |     |   |     |      |      |   |                 |                 |   |     |     |   |                 |                 |   |     |     |
| B  | Gnd             | nc*             |      |   |                 |                 |   |     |                 |   |                 |                 |   |     |      |      |   |                 |                 |   |                 |     |   |                 |                 |   |     |     |   |     |      |      |   |                 |                 |   |     |     |   |                 |                 |   |     |     |
| C  | U <sub>ue</sub> | I <sub>ue</sub> |      |   |                 |                 |   |     |                 |   |                 |                 |   |     |      |      |   |                 |                 |   |                 |     |   |                 |                 |   |     |     |   |     |      |      |   |                 |                 |   |     |     |   |                 |                 |   |     |     |

