



Pressure transmitter

# Huba Control

## OEM relative and absolute pressure transmitter

### Type 511

Type 511 pressure transmitters meet the highest specifications for longevity, accuracy, temperature stability and EMC characteristics, making them suitable for an extremely wide range of demanding industrial applications.



**Pressure range**  
**-1 ... 0 – 600 bar**

- + Compact, rugged construction for highest operational reliability
- + No media egress when exceeding rupture pressure
- + Negligible temperature influence on accuracy
- + Excellent EMC capacity
- + Saving time by quick cable mounting by the customer with swift connector

## Technical overview

### Pressure range

|          |                    |
|----------|--------------------|
| Relative | -1 ... 0 – 600 bar |
| Absolute | 0 ... 25 bar       |

### Operating conditions

|                                                     |                         |                                  |
|-----------------------------------------------------|-------------------------|----------------------------------|
| Medium                                              |                         | Liquids and gases                |
| Temperature                                         |                         | -15 ... +125 °C                  |
|                                                     | FPM                     | -40 ... +150 °C (UL max. 125 °C) |
|                                                     | EPDM                    | -25 ... +125 °C                  |
|                                                     | NBR                     | -25 ... +85 °C                   |
|                                                     | ration. output, AMP JPT | max. +125 °C                     |
| Ambient <sup>1)</sup>                               | all other versions      | max. +85 °C                      |
| Tolerable overload / Rupture pressure <sup>2)</sup> | < 6                     | 3.0 x fs                         |
|                                                     | ≥ 6                     | 2.5 x fs (max. 900 bar)          |

### Materials

|                                      |                     |                                              |
|--------------------------------------|---------------------|----------------------------------------------|
| Materials in contact with the medium | Case                | Stainless steel 1.4305 / AISI 303            |
|                                      | Pressure connection | Stainless steel 1.4305 / AISI 303            |
|                                      | Sensor              | Ceramic Al <sub>2</sub> O <sub>3</sub> (96%) |
|                                      | Media stop system   | PPS                                          |
|                                      | Sealing material    | FPM, EPDM, NBR, FPM spec.                    |

### Media stop system

Media stop system to prevent media egress when exceeding rupture pressure range (> 40 bar nominal value).

### Electrical overview

|                    |                                                                                                                                                                          |                 |                                                         |                                   |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------|-----------------------------------|
| 2 wire             | Output                                                                                                                                                                   | Power supply    | Load                                                    | Current consumption <sup>4)</sup> |
|                    | 4 ... 20 mA                                                                                                                                                              | 8.0 ... 33 VDC  | < $\frac{\text{supply voltage} - 6V}{602 \Omega}$ (Ohm) | < 20 mA                           |
|                    | 0 ... 5 V                                                                                                                                                                | 8.0 ... 33 VDC  | >10 kOhm / < 100 nF                                     | < 4 mA                            |
|                    | 1 ... 6 V                                                                                                                                                                | 8.0 ... 33 VDC  | >10 kOhm / < 100 nF                                     | < 4 mA                            |
| 3 wire             | 0 ... 10 V                                                                                                                                                               | 11.4 ... 33 VDC | >10 kOhm / < 100 nF                                     | < 4 mA                            |
|                    | 0 ... 10 V                                                                                                                                                               | 24 VAC ±15%     | >10 kOhm / < 100 nF                                     | < 4 mA                            |
|                    | ratiom. 10 ... 90%                                                                                                                                                       | 5 VDC ±5%       | >10 kOhm / < 100 nF                                     | < 4 mA                            |
|                    | Polarity reversal protection      Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage. |                 |                                                         |                                   |
| Insulation voltage |                                                                                                                                                                          |                 | standard                                                | 500 VDC                           |
|                    |                                                                                                                                                                          |                 | optional                                                | 1000 VDC                          |

### Dynamic response

|               |                   |
|---------------|-------------------|
| Response time | < 2 ms, typ. 1 ms |
| Load cycle    | < 100 Hz          |

### Protection standard

|                         |       |
|-------------------------|-------|
| With connector Mini DIN | IP 65 |
| All other versions      | IP 67 |

### Electrical connection

|                                   |
|-----------------------------------|
| Cable 1.5 m                       |
| Swift connector                   |
| Connector AMP (Junior power time) |
| Connector M12x1 plastic thread    |
| Connector M12x1 metal thread      |
| Connector Mini DIN                |

### Pressure connection

|                |                                                 |
|----------------|-------------------------------------------------|
| Inside thread  | G ¼ with O-Ring seal                            |
|                | G ¼ sealed at back, ISO 1179-2 (DIN 3852-E)     |
|                | G ½ sealed at front                             |
|                | G ½ sealed at back and manometer (combi)        |
| Outside thread | ¼ -18 NPT                                       |
|                | R ¼ EN 10226                                    |
|                | M12x1.5 sealed at back, ISO 9974-2 (DIN 3852-E) |
|                | M14x1.5 sealed at back, ISO 9974-2 (DIN 3852-E) |

### Installation arrangement

|              |
|--------------|
| Unrestricted |
|--------------|

### Tests / Admissions

|                                    |                                                                                              |
|------------------------------------|----------------------------------------------------------------------------------------------|
| Electromagnetic compatibility      | CE conformity acc. EN 61326-2-3                                                              |
| UL                                 | acc. Standard 61010-1                                                                        |
| Shock acc. IEC 60068-2-27          | 100 g, 11 ms half sine wave, all 6 directions. Free fall from 2 m on concrete (6x)           |
| Constant shock acc. IEC 60068-2-29 | 40 g for 6 ms, 1000x all 3 directions                                                        |
| Vibration acc. IEC 60068-2-6       | 20 g, 2 ... 2000 Hz with amplitude ± 15 mm, 1 Octave/min. all 3 directions, 50 constant load |

### Weight

|                             |        |
|-----------------------------|--------|
| Version with inside thread  | ~ 85 g |
| Version with outside thread | ~ 95 g |

### Packaging (Please state on order)

|                                          |                        |
|------------------------------------------|------------------------|
| Single packaging in cardboard            | accessories integrated |
| Multiple packaging in cardboard (25 pcs) | accessories integrated |

<sup>1)</sup> Version until +150 °C on request

<sup>2)</sup> higher overload and rupture pressure on request

<sup>3)</sup> at nominal pressure

## Accuracy

| Parameter                                        |      | Unit     |        |
|--------------------------------------------------|------|----------|--------|
| Tolerance zero point                             | max. | % fs     | ± 0.3  |
| Tolerance full scale                             | max. | % fs     | ± 0.3  |
| Resolution                                       |      | % fs     | 0.1    |
| Total of linearity, hysteresis and repeatability | max. | % fs     | ± 0.3  |
| Long term stability acc. DIN EN 60770            |      | % fs     | ± 1.0  |
| TC zero point <sup>1)</sup>                      | max. | % fs/10K | ± 0.15 |
| TC sensitivity <sup>1)</sup>                     | typ. | % fs/10K | ± 0.15 |

Test conditions: 25 °C, 45% RH, power supply 24 VDC  
TC z.p. / TC s. -40 ... +125 °C

## Order code selection table in bar

|                                     |                                                                       | 1 | 2 | 3 | 4 | 5 | 6 | 7   | 8 | 9   | 10 |
|-------------------------------------|-----------------------------------------------------------------------|---|---|---|---|---|---|-----|---|-----|----|
| 511.                                |                                                                       | X | X | X | X | X | X | X   | X | X   | X  |
| Pressure mode                       | Relative                                                              | 9 |   |   |   |   |   |     |   |     |    |
|                                     | Absolute                                                              | 8 |   |   |   |   |   |     |   |     |    |
| Pressure range <sup>2)</sup>        | -1 ... 0 bar                                                          | 9 | 0 | 0 |   |   |   |     |   |     |    |
|                                     | 0 ... 1 bar                                                           |   | 1 | 1 |   |   |   |     |   |     |    |
|                                     | 0 ... 1.6 bar                                                         |   | 1 | 2 |   |   |   |     |   |     |    |
|                                     | 0 ... 2.5 bar                                                         |   | 1 | 4 |   |   |   |     |   |     |    |
|                                     | 0 ... 4 bar                                                           |   | 1 | 5 |   |   |   |     |   |     |    |
|                                     | 0 ... 6 bar                                                           |   | 1 | 7 |   |   |   |     |   |     |    |
|                                     | 0 ... 10 bar                                                          |   | 3 | 0 |   |   |   |     |   |     |    |
|                                     | 0 ... 16 bar                                                          |   | 3 | 1 |   |   |   |     |   |     |    |
|                                     | 0 ... 25 bar                                                          |   | 3 | 2 |   |   |   |     |   |     |    |
|                                     | 0 ... 40 bar                                                          | 9 | 3 | 3 |   |   |   |     |   | 2   |    |
|                                     | 0 ... 60 bar                                                          | 9 | 4 | 0 |   |   |   |     |   | 2   |    |
|                                     | 0 ... 100 bar                                                         | 9 | 4 | 1 |   |   |   |     |   | 2,5 |    |
|                                     | 0 ... 160 bar                                                         | 9 | 4 | 2 |   |   |   |     |   | 2,5 |    |
|                                     | 0 ... 250 bar                                                         | 9 | 4 | 3 |   |   |   |     |   | 2,5 |    |
|                                     | 0 ... 400 bar (FPM seal only -40 ... +150 °C)                         | 9 | 5 | 4 | 6 |   |   |     |   | 2,5 |    |
|                                     | 0 ... 600 bar (FPM seal only -40 ... +150 °C)                         | 9 | 5 | 5 | 6 |   |   |     |   | 2,5 |    |
|                                     | ▲ Full scale signal at these pressures                                |   |   |   |   |   |   |     |   |     |    |
| Sealing material <sup>3)</sup>      | FPM Fluoro elastomer                                                  |   |   |   | 0 |   |   |     |   |     |    |
|                                     | EPDM Ethylene propylene                                               |   |   |   | 6 |   |   |     |   |     |    |
|                                     | NBR Butadiene Acrylonitrile                                           |   |   |   | 1 |   |   |     |   |     |    |
|                                     |                                                                       |   |   |   | 2 |   |   |     |   |     |    |
| Adjustment                          | Factory                                                               |   |   |   | 0 |   |   |     |   |     |    |
| Output / power supply               | 0 ... 5 V                                                             |   |   |   |   |   | 1 |     |   |     |    |
|                                     | 8.0 ... 33 VDC IN=1 / OUT=3 / GND=4                                   |   |   |   |   |   | F | 5,7 |   |     |    |
|                                     | 1 ... 6 V                                                             |   |   |   |   |   | 6 |     |   |     |    |
|                                     | 8.0 ... 33 VDC IN=1 / OUT=3 / GND=4                                   |   |   |   |   |   | G | 5,7 |   |     |    |
|                                     | 0 ... 10 V                                                            |   |   |   |   |   | 2 |     |   |     |    |
|                                     | 11.4 ... 33 VDC IN=1 / OUT=3 / GND=4                                  |   |   |   |   |   | H | 5,7 |   |     |    |
|                                     | 24 VAC ±15%                                                           |   |   |   |   |   | 7 | 1,0 |   |     |    |
|                                     | 4 ... 20 mA 8.0 ... 33 VDC                                            |   |   |   |   |   | 3 |     |   |     |    |
| Electrical connection               | ration. 10 ... 90%                                                    |   |   |   |   |   | 4 |     |   |     |    |
|                                     | Cable 1.5 m                                                           |   |   |   |   |   |   | 0   |   |     |    |
|                                     | Swift connector                                                       |   |   |   |   |   |   | 1   |   |     |    |
|                                     | AMP JPT <sup>4)</sup>                                                 |   |   |   |   |   |   | 2   |   |     |    |
|                                     | M12x1 plastic thread <sup>4)</sup>                                    |   |   |   |   |   |   | 5   |   |     |    |
|                                     | M12x1 metal thread <sup>4)</sup>                                      |   |   |   |   |   |   | 7   |   |     |    |
|                                     | Mini DIN 2w:IN=3/OUT=1 3w:IN=3/OUT=2/GND=1                            |   |   |   |   |   |   | 8   |   |     |    |
|                                     | Mini DIN 2w:IN=1/OUT=2 3w:IN=1/OUT=3/GND=2                            |   |   |   |   |   |   | 9   |   |     |    |
|                                     | Inside thread G ¼ with O-Ring seal (no pressure tip orifice possible) |   |   |   |   |   |   |     | 1 | 1,2 |    |
|                                     | G ¼ sealed at back, ISO 1179-2 (DIN 3852-E)                           |   |   |   |   |   |   |     | 4 |     |    |
| Pressure connection <sup>5)</sup>   | Outside thread G ½ sealed at front                                    |   |   |   |   |   |   |     | 9 |     |    |
|                                     | G ½ sealed at back and manometer (combi)                              |   |   |   |   |   |   |     | 8 |     |    |
|                                     | ¼ -18 NPT                                                             |   |   |   |   |   |   |     | 3 |     |    |
|                                     | R ¼, EN 10226                                                         |   |   |   |   |   |   |     | 7 |     |    |
|                                     | M12x1.5 sealed at back, ISO 9974-2 (DIN 3852-E)                       |   |   |   |   |   |   |     | 5 |     |    |
|                                     | M14x1.5 sealed at back, ISO 9974-2 (DIN 3852-E)                       |   |   |   |   |   |   |     | 6 |     |    |
|                                     | Stainless steel without media stopper (≤ 60 bar)                      |   |   |   |   |   |   |     |   | 1   |    |
|                                     | Stainless steel with media stopper (standard ≥ 40 bar)                |   |   |   |   |   |   |     |   | 2   |    |
| Version                             | Stainless steel with pressure tip orifice (≥ 100 bar)                 |   |   |   |   |   |   |     |   | 5   |    |
| Pressure range variation (optional) | Indicate W and state range on order (e.g.: W0... + 8bar/OUT1...6V)    |   |   |   |   |   |   |     |   |     | W  |

## Accessories (supplied loose)

|                                                         | Order Number |
|---------------------------------------------------------|--------------|
| Female connector for connector M12x1                    | 106975       |
| Female connector AMP (Junior power timer) 2-wire        | 110442       |
| Female connector AMP (Junior power timer) 3-wire        | 108767       |
| Female connector swift connector (included in delivery) | 117312       |
| Female connector                                        | 104244       |
| Calibration certificate                                 | 104551       |

<sup>1)</sup> TC = Temperature coefficient

<sup>2)</sup> Other pressure range on request

<sup>3)</sup> Other sealing material on request

<sup>4)</sup> Delivery without female connector

<sup>5)</sup> Other pressure connection on request

|                                        |                                                                      |                                                        |                                     | 1    | 2 | 3 | 4 | 5 | 6   | 7 | 8 | 9   | 10 |
|----------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------|------|---|---|---|---|-----|---|---|-----|----|
| Order code selection table in psi      |                                                                      |                                                        |                                     | 511. | X | X | X | X | X   | X | X | X   | X  |
| Pressure mode                          | Relative                                                             |                                                        |                                     | 9    |   |   |   |   |     |   |   |     |    |
|                                        | Absolute                                                             |                                                        |                                     | 8    |   |   |   |   |     |   |   |     |    |
| Pressure range <sup>1)</sup>           | -30 ... 0"hg                                                         |                                                        |                                     | 9    | A | 0 |   |   |     |   |   |     |    |
|                                        | 0 ... 15 psi                                                         |                                                        |                                     |      | B | 1 |   |   |     |   |   |     |    |
|                                        | 0 ... 30 psi                                                         |                                                        |                                     |      | B | 4 |   |   |     |   |   |     |    |
|                                        | 0 ... 60 psi                                                         |                                                        |                                     |      | B | 5 |   |   |     |   |   |     |    |
|                                        | 0 ... 100 psi                                                        |                                                        |                                     |      | B | 7 |   |   |     |   |   |     |    |
|                                        | 0 ... 200 psi                                                        |                                                        |                                     |      | C | 1 |   |   |     |   |   |     |    |
|                                        | 0 ... 300 psi                                                        |                                                        |                                     |      | C | 2 |   |   |     |   |   |     |    |
|                                        | 0 ... 500 psi                                                        |                                                        |                                     | 9    | C | 3 |   |   |     |   |   | 2   |    |
|                                        | 0 ... 750 psi                                                        |                                                        |                                     | 9    | D | 0 |   |   |     |   |   | 2   |    |
|                                        | 0 ... 1000 psi                                                       |                                                        |                                     | 9    | D | 1 |   |   |     |   |   | 2,5 |    |
|                                        | 0 ... 2000 psi                                                       |                                                        |                                     | 9    | D | 2 |   |   |     |   |   | 2,5 |    |
|                                        | 0 ... 3000 psi                                                       |                                                        |                                     | 9    | D | 3 |   |   |     |   |   | 2,5 |    |
|                                        | 0 ... 5000 psi (FPM seal only -40 ... +150 °C)                       |                                                        |                                     | 9    | E | 4 | 6 |   |     |   |   | 2,5 |    |
|                                        | 0 ... 7500 psi (FPM seal only -40 ... +150 °C)                       |                                                        |                                     | 9    | E | 5 | 6 |   |     |   |   | 2,5 |    |
| ▲ Full scale signal at these pressures |                                                                      |                                                        |                                     |      |   |   |   |   |     |   |   |     |    |
| Sealing material <sup>2)</sup>         | FPM                                                                  | Fluoro elastomer                                       | -15 ... +125 °C                     |      |   |   | 0 |   |     |   |   |     |    |
|                                        |                                                                      |                                                        | -40 ... +150 °C (UL max. 125 °C)    |      |   |   | 6 |   |     |   |   |     |    |
|                                        | EPDM                                                                 | Ethylene propylene                                     |                                     |      |   |   | 1 |   |     |   |   |     |    |
|                                        | NBR                                                                  | Butadiene Acrylonitrile                                |                                     |      |   |   | 2 |   |     |   |   |     |    |
| Adjustment                             | Factory                                                              |                                                        |                                     |      |   |   |   | 0 |     |   |   |     |    |
| Output / power supply                  | 0 ... 5 V                                                            | 8.0 ... 33 VDC IN=1 / OUT=3 / GND=4                    |                                     |      |   |   |   | 1 |     |   |   |     |    |
|                                        |                                                                      | 8.0 ... 33 VDC IN=1 / OUT=4 / GND=3                    |                                     |      |   |   |   | F | 5,7 |   |   |     |    |
|                                        | 1 ... 6 V                                                            | 8.0 ... 33 VDC IN=1 / OUT=3 / GND=4                    |                                     |      |   |   |   | 6 |     |   |   |     |    |
|                                        |                                                                      | 8.0 ... 33 VDC IN=1 / OUT=4 / GND=3                    |                                     |      |   |   |   | G | 5,7 |   |   |     |    |
|                                        | 0 ... 10 V                                                           | 11.4 ... 33 VDC IN=1 / OUT=3 / GND=4                   |                                     |      |   |   |   | 2 |     |   |   |     |    |
|                                        |                                                                      | 11.4 ... 33 VDC IN=1 / OUT=4 / GND=3                   |                                     |      |   |   |   | H | 5,7 |   |   |     |    |
|                                        |                                                                      | 24 VAC ±15%                                            |                                     |      |   |   |   | 7 | 1,0 |   |   |     |    |
|                                        | 4 ... 20 mA                                                          | 8.0 ... 33 VDC                                         |                                     |      |   |   |   | 3 |     |   |   |     |    |
| ratiom. 10 ... 90%                     | 5 VDC ±5%                                                            |                                                        |                                     |      |   |   | 4 |   |     |   |   |     |    |
| Electrical connection                  | Cable 1.5 m                                                          |                                                        |                                     |      |   |   |   |   |     | 0 |   |     |    |
|                                        | Swift connector                                                      |                                                        |                                     |      |   |   |   |   |     | 1 |   |     |    |
|                                        | Connector                                                            | AMP JPT <sup>3)</sup>                                  |                                     |      |   |   |   |   |     | 2 |   |     |    |
|                                        |                                                                      | M12x1 plastic thread <sup>3)</sup>                     |                                     |      |   |   |   |   |     | 5 |   |     |    |
|                                        |                                                                      | M12x1 metal thread <sup>3)</sup>                       |                                     |      |   |   |   |   |     | 7 |   |     |    |
|                                        |                                                                      | Mini DIN                                               | 2wr:IN=3/OUT=1 3wr:IN=3/OUT=2/GND=1 |      |   |   |   |   |     | 8 |   |     |    |
| Mini DIN                               |                                                                      | 2wr:IN=1/OUT=2 3wr:IN=1/OUT=3/GND=2                    |                                     |      |   |   |   |   | 9   |   |   |     |    |
| Pressure connection <sup>4)</sup>      | Inside thread                                                        | G ¼ mit O-Ring seal (no pressure tip orifice possible) |                                     |      |   |   |   |   |     |   | 1 | 1,2 |    |
|                                        | Outside thread                                                       | G ¼ sealed at back, ISO 1179-2 (DIN 3852-E)            |                                     |      |   |   |   |   |     |   | 4 |     |    |
|                                        |                                                                      | G ½ sealed at front                                    |                                     |      |   |   |   |   |     |   | 9 |     |    |
|                                        |                                                                      | G ½ sealed at back and manometer (combi)               |                                     |      |   |   |   |   |     |   | 8 |     |    |
|                                        |                                                                      | ¼ -18 NPT                                              |                                     |      |   |   |   |   |     |   | 3 |     |    |
|                                        |                                                                      | R ¼, EN 10226                                          |                                     |      |   |   |   |   |     |   | 7 |     |    |
|                                        |                                                                      | M12x1.5 sealed at back, ISO 9974-2 (DIN 3852-E)        |                                     |      |   |   |   |   |     |   | 5 |     |    |
|                                        |                                                                      | M14x1.5 sealed at back, ISO 9974-2 (DIN 3852-E)        |                                     |      |   |   |   |   |     |   | 6 |     |    |
| Version                                | Stainless steel without media stopper (≤ 700 psi)                    |                                                        |                                     |      |   |   |   |   |     |   |   | 1   |    |
|                                        | Stainless steel with media stopper (standard ≥ 500 psi)              |                                                        |                                     |      |   |   |   |   |     |   |   | 2   |    |
|                                        | Stainless steel with pressure tip orifice (≥ 1000 psi)               |                                                        |                                     |      |   |   |   |   |     |   |   | 5   |    |
| Pressure range variation (optional)    | Indicate W and state range on order (e.g.: W0... + 120psi/OUT1...6V) |                                                        |                                     |      |   |   |   |   |     |   |   |     | W  |

<sup>1)</sup> Other pressure range on request

<sup>2)</sup> Other sealing material on request

<sup>3)</sup> Delivery without female connector

<sup>4)</sup> Other pressure connection on request

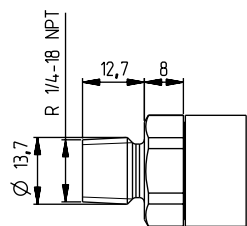
|                                     |                                                                      | 1                                                       | 2                                 | 3 | 4 | 5 | 6 | 7   | 8 | 9   | 10 |
|-------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------|---|---|---|---|-----|---|-----|----|
| Order code selection table in MPa   |                                                                      | 511.                                                    | X                                 | X | X | X | X | X   | X | X   | X  |
| Pressure mode                       | Relative                                                             | 9                                                       |                                   |   |   |   |   |     |   |     |    |
|                                     | Absolute                                                             | 8                                                       |                                   |   |   |   |   |     |   |     |    |
| Pressure range <sup>1)</sup>        | -0.1 ... 0 MPa                                                       | 9                                                       | F                                 | 0 |   |   |   |     |   |     |    |
|                                     | 0 ... 0.1 MPa                                                        |                                                         | G                                 | 1 |   |   |   |     |   |     |    |
|                                     | 0 ... 0.16 MPa                                                       |                                                         | G                                 | 2 |   |   |   |     |   |     |    |
|                                     | 0 ... 0.25 MPa                                                       |                                                         | G                                 | 4 |   |   |   |     |   |     |    |
|                                     | 0 ... 0.4 MPa                                                        |                                                         | G                                 | 5 |   |   |   |     |   |     |    |
|                                     | 0 ... 0.6 MPa                                                        |                                                         | G                                 | 7 |   |   |   |     |   |     |    |
|                                     | 0 ... 1 MPa                                                          |                                                         | H                                 | 0 |   |   |   |     |   |     |    |
|                                     | 0 ... 1.6 MPa                                                        |                                                         | H                                 | 1 |   |   |   |     |   |     |    |
|                                     | 0 ... 2.5 MPa                                                        |                                                         | H                                 | 2 |   |   |   |     |   |     |    |
|                                     | 0 ... 4 MPa                                                          | 9                                                       | H                                 | 3 |   |   |   |     |   | 2   |    |
|                                     | 0 ... 6 MPa                                                          | 9                                                       | K                                 | 0 |   |   |   |     |   | 2   |    |
|                                     | 0 ... 10 MPa                                                         | 9                                                       | K                                 | 1 |   |   |   |     |   | 2,5 |    |
|                                     | 0 ... 16 MPa                                                         | 9                                                       | K                                 | 2 |   |   |   |     |   | 2,5 |    |
|                                     | 0 ... 25 MPa                                                         | 9                                                       | K                                 | 3 |   |   |   |     |   | 2,5 |    |
|                                     | 0 ... 40 MPa (FPM seal only -40 ... +150 °C)                         | 9                                                       | L                                 | 4 | 6 |   |   |     |   | 2,5 |    |
|                                     | 0 ... 60 MPa (FPM seal only -40 ... +150 °C)                         | 9                                                       | L                                 | 5 | 6 |   |   |     |   | 2,5 |    |
|                                     | ▲ Full scale signal at these pressures                               |                                                         |                                   |   |   |   |   |     |   |     |    |
| Sealing material <sup>2)</sup>      | FPM Fluoro elastomer -15 ... +125 °C                                 |                                                         |                                   |   | 0 |   |   |     |   |     |    |
|                                     | -40 ... +150 °C (UL max. 125 °C)                                     |                                                         |                                   |   | 6 |   |   |     |   |     |    |
|                                     | EPDM Ethylene propylene                                              |                                                         |                                   |   | 1 |   |   |     |   |     |    |
| Adjustment                          | NBR Butadiene Acrylonitrile                                          |                                                         |                                   |   | 2 |   |   |     |   |     |    |
|                                     | Factory                                                              |                                                         |                                   |   |   | 0 |   |     |   |     |    |
| Output / power supply               | 0 ... 5 V                                                            | 8.0 ... 33 VDC IN=1 / OUT=3 / GND=4                     |                                   |   |   |   | 1 |     |   |     |    |
|                                     |                                                                      | 8.0 ... 33 VDC IN=1 / OUT=4 / GND=3                     |                                   |   |   |   | F | 5,7 |   |     |    |
|                                     | 1 ... 6 V                                                            | 8.0 ... 33 VDC IN=1 / OUT=3 / GND=4                     |                                   |   |   |   | 6 |     |   |     |    |
|                                     |                                                                      | 8.0 ... 33 VDC IN=1 / OUT=4 / GND=3                     |                                   |   |   |   | G | 5,7 |   |     |    |
|                                     | 0 ... 10 V                                                           | 11.4 ... 33 VDC IN=1 / OUT=3 / GND=4                    |                                   |   |   |   | 2 |     |   |     |    |
|                                     |                                                                      | 11.4 ... 33 VDC IN=1 / OUT=4 / GND=3                    |                                   |   |   |   | H | 5,7 |   |     |    |
|                                     |                                                                      | 24 VAC ±15%                                             |                                   |   |   |   | 7 | 1,0 |   |     |    |
|                                     | 4 ... 20 mA                                                          | 8.0 ... 33 VDC                                          |                                   |   |   |   | 3 |     |   |     |    |
|                                     | ratiom. 10 ... 90%                                                   | 5 VDC ±5%                                               |                                   |   |   |   | 4 |     |   |     |    |
|                                     |                                                                      |                                                         |                                   |   |   |   |   |     |   |     |    |
| Electrical connection               | Cable 1.5 m                                                          |                                                         |                                   |   |   |   |   | 0   |   |     |    |
|                                     | Swift connector                                                      |                                                         |                                   |   |   |   |   | 1   |   |     |    |
|                                     |                                                                      |                                                         |                                   |   |   |   |   | 2   |   |     |    |
|                                     | Connector                                                            | AMP JPT <sup>3)</sup>                                   |                                   |   |   |   |   |     |   |     |    |
|                                     |                                                                      | M12x1 plastic thread <sup>3)</sup>                      |                                   |   |   |   |   | 5   |   |     |    |
|                                     |                                                                      | M12x1 metal thread <sup>3)</sup>                        |                                   |   |   |   |   | 7   |   |     |    |
|                                     |                                                                      | Mini DIN                                                | 2w:IN=3/OUT=1 3w:IN=3/OUT=2/GND=1 |   |   |   |   | 8   |   |     |    |
| Pressure connection <sup>4)</sup>   |                                                                      | Mini DIN                                                | 2w:IN=1/OUT=2 3w:IN=1/OUT=3/GND=2 |   |   |   |   | 9   |   |     |    |
|                                     | Inside thread                                                        | G ¼ with O-Ring seal (no pressure tip orifice possible) |                                   |   |   |   |   |     | 1 | 1,2 |    |
|                                     |                                                                      | G ¼ sealed at back, ISO 1179-2 (DIN 3852-E)             |                                   |   |   |   |   |     | 4 |     |    |
|                                     |                                                                      | G ½ sealed at front                                     |                                   |   |   |   |   |     | 9 |     |    |
|                                     |                                                                      | G ½ sealed at back and manometer (combi)                |                                   |   |   |   |   |     | 8 |     |    |
|                                     | Outside thread                                                       | ¼ -18 NPT                                               |                                   |   |   |   |   |     | 3 |     |    |
|                                     |                                                                      | R ¼, EN 10226                                           |                                   |   |   |   |   |     | 7 |     |    |
|                                     |                                                                      | M12x1.5 sealed at back, ISO 9974-2 (DIN 3852-E)         |                                   |   |   |   |   |     | 5 |     |    |
|                                     |                                                                      | M14x1.5 sealed at back, ISO 9974-2 (DIN 3852-E)         |                                   |   |   |   |   |     | 6 |     |    |
| Version                             | Stainless steel without media stopper (≤ 6 MPa)                      |                                                         |                                   |   |   |   |   |     |   | 1   |    |
|                                     | Stainless steel with media stopper (standard ≥ 4 MPa)                |                                                         |                                   |   |   |   |   |     |   | 2   |    |
|                                     | Stainless steel with pressure tip orifice (≥ 10 MPa)                 |                                                         |                                   |   |   |   |   |     |   | 5   |    |
| Pressure range variation (optional) | Indicate W and state range on order (e.g.: W0... + 0.8MPa/OUT1...6V) |                                                         |                                   |   |   |   |   |     |   |     | W  |

<sup>1)</sup> Other pressure range on request

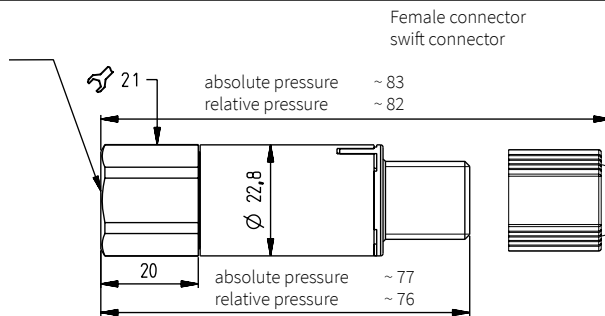
<sup>2)</sup> Other sealing material on request

<sup>3)</sup> Delivery without female connector

<sup>4)</sup> Other pressure connection on request



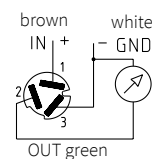
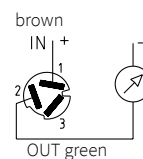
G 1/4  
Inside thread



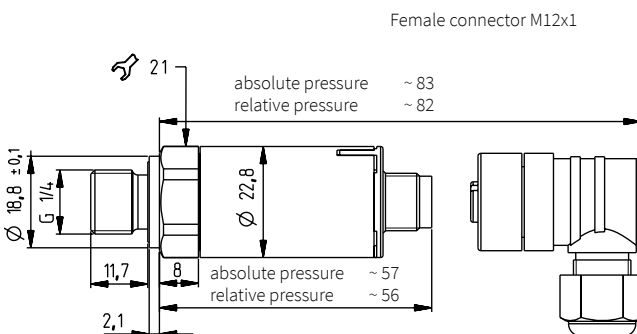
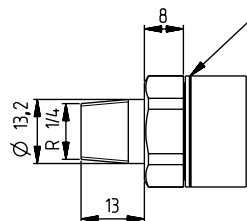
Female connector  
swift connector

2 wire  
(4 ... 20 mA)

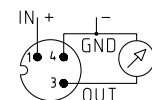
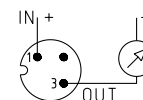
3 wire



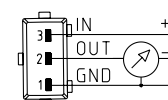
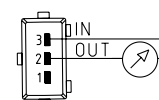
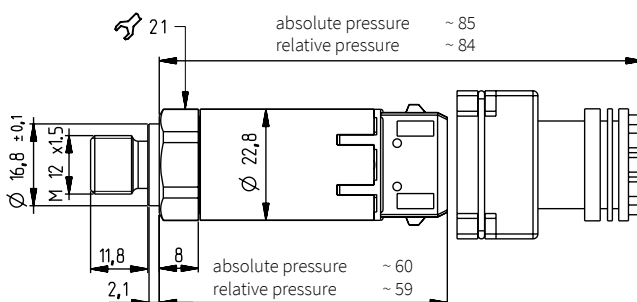
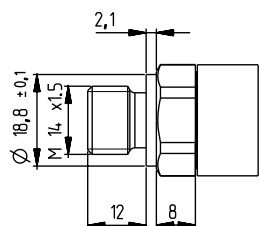
All absolute versions  
are especially marked  
with an indentation.



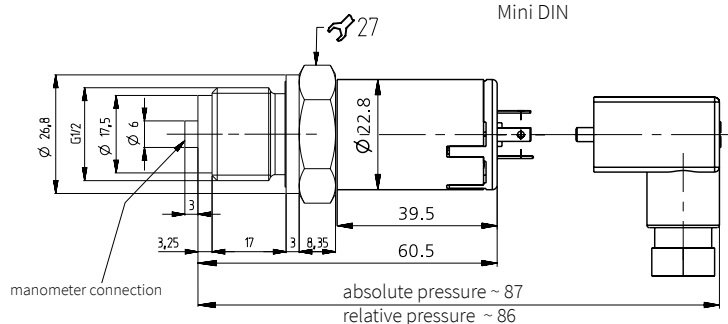
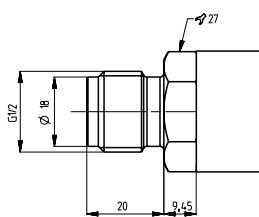
Female connector M12x1



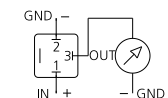
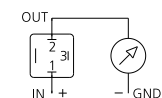
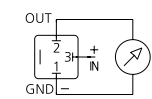
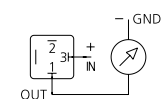
Female connector AMP JPT



Female connector  
Mini DIN



manometer connection



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