HIGH TEMPERATURE PRESSURE TRANSMITTER
FOR BIOTECHNOLOGY / FOOD-INDUSTRIES

This piezoresistive high temperature transmitter (-transducer) is suited for media temperatures up to 300°C. The pressure, acting onto the flush diaphragm, is transferred over an oil-filled capillary onto the silicon measuring cell. The capillary has the function of a cooling spiral. When measuring media with temperatures of 300°C, the temperature at the silicon cell only increases by 100°C. The integrated amplifier electronics provide a voltage- or current signal proportional to the pressure.

For highly aggressive media, KELLER offers pressure ports in different materials.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Pressure Ranges (bar)</th>
<th>Overload (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0,2 0,5 1,0 2,0 5,0 10 20 25</td>
<td>2,5 2,5 3,0 5,0 7,5 15 30 30</td>
</tr>
</tbody>
</table>

- **PA(A) 25HTC**: Zero at Vacuum, PA: Zero at ≈1 bar absolute
- **PR-25HTC**: Vented Gauge

### Pressure Ranges

**50 100 200 400 600 1000 bar**

**Overload**

**75 150 300 500 700 1100 bar**

- **Linearity Error**: <0,5%FS (optional 0,2%FS and 0,1%FS)
- **Media Temperature**: 25…300°C
- **T. C. of Zero**: <0,03%FS/°C
- **T. C. of Sensitivity**: <0,02%FS/°C
- **Frequency Range**: typ. 50 Hz (function of media temperature)
- **Insulation**: >10 MΩ @ 50 V

**Excitation**

3-Wire: 13…28 V
2-Wire: 10…28 V

**Output**

0…10 V / 0…20 mA
4…20 mA

**Load Resistance (R_L)**

>5k (U-10 V)/0,02 A

**Pressure Connection**: G 1/2", G 3/4"

**Material in Media Contact**: Stainless Steel 1.4435 (316 L)

**Length of Colling Spiral**: 50 mm

**Electrical Connection**

Binder Plug Series 723

**Weight**: ≈220 g

**Mounting**: Horizontal position (carrying-off of heat). Cooling spiral exposed to room temperature.

**Options**

Programmable (25 HTC-PRO).
Others on request.

### ELECTRICAL CONNECTIONS

**3-Wire**

1: white GND
2: red +OUT OUT/GND
3: black +Vcc +Vcc

**2-Wire**

1: black +Vcc
2: white GND
3: red +OUT OUT/GND

Subject to alterations