

**SERIES GMD/GL-DAI**  
"GREENLINE"



**Melt pressure transmitter**  
**1/2"-20UNF-2A / M18 x 1,5**

**Equipment / characteristics**

- Output signal 4 - 20 mA / 0 - 10 VDC
- Range 100 to 1000bar
- Accuracy better than 0,50%to the point
- Temperatur compensated
- Mercury free, Silicon Oil free, NaK free
- Calibrationpoint 200°C
- 6-Point characteristic calibrated
- MADE IN GERMANY



**General information**

We have also had to attend to the increasing demand for "mercury-free" pressure sensors. Pressure sensors filled with silicone oil were no real alternative for us due to their enormous pressure differences. Therefore, we opted for an innovative liquid metal alloy with pressure transfer characteristics similar to mercury.

Thus, our product range is expanded by the pressure sensor series "GREENLINE". All known versions are also provided in this respect. Moreover, we rely on our high quality standard "Made in Germany" in line with an interesting price-performance-ratio.

Details of the respective versions can be obtained from this data sheet.  
The standard version of this sensor has a 1/2"-20UNF and M18x1.5 connection.

All Sensor and parts are made of stainless steel, the Membrane is high flexible and with a special coating!

**Technical data**

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|---|--|
| <ul style="list-style-type: none"> <li>● Output signal<br/>4 - 20mA / 0-10 VDC, 2-/3-/4-wire</li> <li>● Power supply<br/>12 - 32 VDC</li> <li>● Standard - process connection<br/>1/2"-20UNF-2A / M18x1,5</li> <li>● Calibration shunt<br/>80%</li> <li>● Installation lenght<br/>Minimum 76mm</li> </ul> | <ul style="list-style-type: none"> <li>● Flexible capillarie<br/>stainless steel corrugated hose up to 760 mm</li> <li>● Maximum temperature membrane<br/>max. +450°C depending on type of filling</li> <li>● Standard membrane high flexible<br/>1.4571 with special coating</li> <li>● Special option<br/>available with thermocouple or RTD sensor</li> <li>● Maximum pressure range<br/>100 to 1000 bar</li> </ul> |
|---|--|



**HOUSING**

**Material - HOUSING**

Stainless steel 1.4571

**Plug**

Standard Amphenol 8pin/7pin

**Diaphragm**

Stainless steel

**Coating**

Special coating, anti adhesive

**TECHNICAL DETAILS**

**Pressure measuring areas**

17bar to 1000bar

**Calibration item**

80% of range

**Accuracy**

Max. 0,50%, linear

**Maximum overload**

150% of range

**Zero point alignment at temperature changes at the diaphragm**

Max. 0,02bar of Ew./°C

**Zero point alignment at temperature changes at the connection head**

Max. 0,003% of Ew./°C

**Maximum diaphragm temperature**

+300°C / 400°C depending on filler medium

**Maximum temperature at the Measuring head**

85°C

**IN-/OUTPUT SIGNALS**

**Auxiliary energy**

6...10VDC

**Output Signal**

2,0 / 3,0 / 3,3mV/V

(ordercode)

**AMBIENCE CONDITIONS**

**Operating temperature**

+300 °C / +400°C (membrane)

**Relative humidity**

20...95 %, no ding

**Storage temperature**

-20...+125 °C

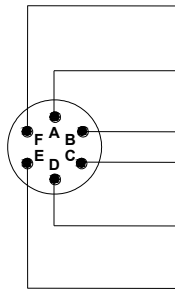
**Protection type**

IP-65

**Dimensions**

(See drawings or order code)

**ELECTRICAL WIRING**



**CALIBRATION 80 %**

**SIGNAL +**

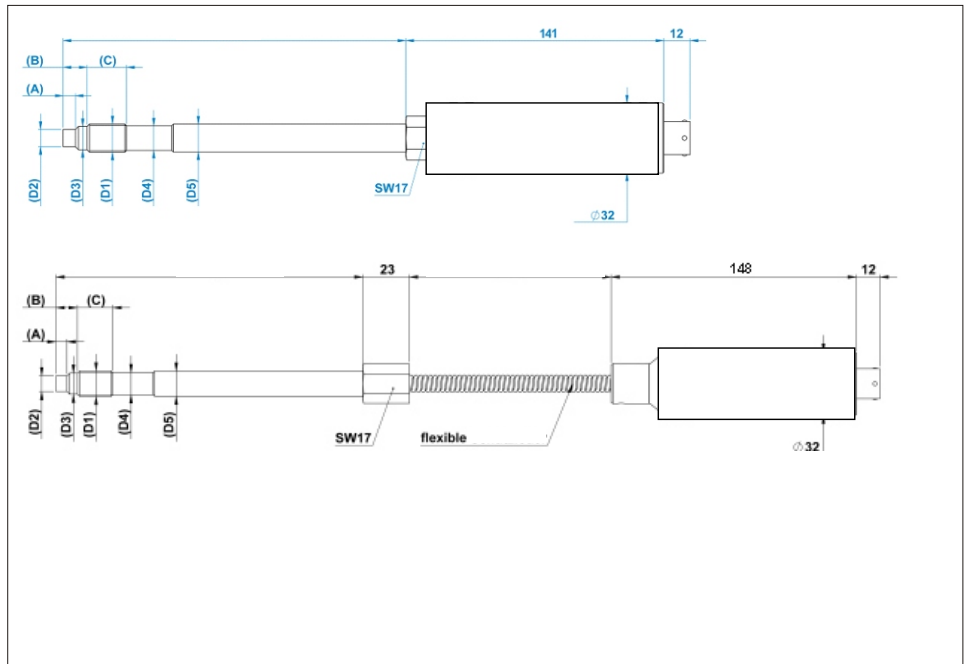
**SIGNAL -**

**SUPPLY +**

**SUPPLY -**

**N.N.**

**DIMENSIONS**



**MORE TYPES OF SENSOR**

- MELT PRESSURE TRANSDUCER mV/V WITH THERMOCOUPLE  
Code: DTA
- MELT PRESSURE TRANSMITTER mA / V  
Code: DAI
- MELT PRESSURE TRANSMITTER mA / V WITH THERMOCOUPLE  
Code: DTAI
- SAFETY MELT PRESSURE TRANSMITTER EN 1114-1, PI" c"  
Code: HPL
- MELT PRESSURE TRANSMITTER WITH HART OR ATEX  
Code: DAIX

