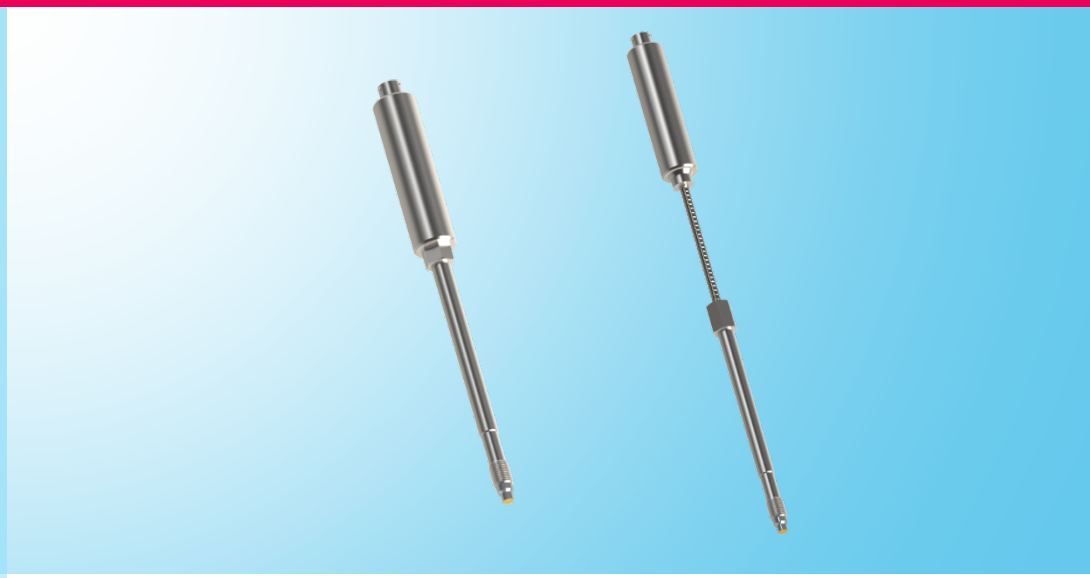
We sense innovation.

GRÄFF



Melt pressure transducer
„DTA“ Output signal mV/V and temperature sensor

PRODUCT FEATURES

- Output signals mV/V, mA, V
- Pressure ranges up to 2000bar
- Accuracies 0,15%/0,25%/0,50%
- Temperature compensated
- Mercury free
- Silicone oil free
- NaK free
- Sensor completely made of stainless steel
- Standard membrane highly elastic
- Standard RT/200°C calibrated
- 6-times characteristic curve calibration
- Made in Germany

TECHNICAL DETAILS

Output signal
2,0mV/V
2,5mV/V
3,3mV/V

Supply voltage
6 – 10 VDC

Process connection
1/2“-20UNF
M18x1,5
M10x1

Calibration point
Standard 80% of final value

Shaft lengths / Installation lengths
Min. 38 mm up to max. 457 mm

Flexible capillary extension
Up to max. 2000 mm
Version with stainless steel protection hose

Process temperatures
Diaphragm up to max. +450°C

Electrical connection
Standard 6-pole
Further versions on request

Environmental temperatures
-30°C up to max. +125°C

Maximum pressure overload
2-times of measuring range

Diaphragm design
Stainless steel, high flexible,
Special coating

Temperature sensor
Thermocouple Type L/J/K
Resistance thermometer PT100/PT1000

Protection type
IP65 housing
IP55 plug side

HOUSING

Housing material
Stainless steel 1.4571

Plug version
6-pole Amphenol, bayonet lock
Option 5-pole M12 plug A-coded
Further versions on request

Diaphragm
Stainless steel, high flexible
Special – nonstick coating
Optional Inconel
Optional Hastelloy

IN/OUTPUT SIGNALS

Supply voltage
6…10 VDC

Output signals
2,0 mV/V
3,0 mV/V
3,3 mV/V

Temperature sensor
Thermocouples
Resistance thermometer

ENVIRONMENTAL CONDITION

Operating temperature
Standard up to max. +300°C/+320°C
Optional up to max. +450°C/+500°C

Storage temperature
-20°C up to max. +125°C

Relativ humidity
20 to 95%, no condensation

Protection type
IP-65 (housing)
IP-55 (plug)

TECHNICAL DETAILS

Pressure ranges
0 – 2000 bar

Calibration point
80% vom Messbereich

Accuracy
Standard +/- 0,50% linear
Optional +/- 0,25% linear
Optional +/- 0,15% linear

Maximum overload pressure
2-times of final value

Maximum diaphragm temperature
Up to max. +450°C depending on filling medium

Maximum head temperature
Up to max. +85°C

Filling liquid depending on version
Special filling liquid
Mercury free
Silicone oil free
NaK free

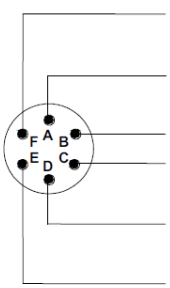
Maximum calibration deviation
Max. 5% of final value
Weitere Ausführungen auf Anfrage

Bridge resistor
350 Ohm

Reproducibility
+/- 0,10% of final value

Insulation resistance
1000 MOhm at 50°C

ELECTRICAL CONNECTION



Calibration 80%
Signal +
Signal –
Supply +
Supply -
Without function

MORE VERSIONS

DA with mV/V output
Melt pressure transducer mV/V

DAI with mA or V output
Melt pressure transmitter mA / V

DTAI with mA or V output
Combo sensor with incl. thermocouple
Combo sensor with incl. PT100 sensor

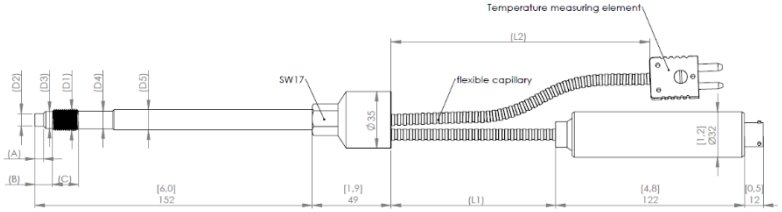
HPL security function EN 1114-1
Security output
Performance Level C, SIL 2

DAIX with ATEX certification
ATEX version
HART protocoll

ACCESSORIES

Cable connector
Ready-made connecting cable
Cleaning tool mounting hole

MEASURES



D1	D2	D3	D4	D5	A	B	C	SW
M18x1,5	10 $^{-0,05}$	16 $^{-0,1}$	16 $^{-0,5}$	16	6 $^{-0,25}$	14	20	17
1/2"20UNF 2A	7,8 $^{-0,5}$	10,5 $^{-0,05}$	10,5 $^{-0,5}$	12,5	5,6 $^{-0,1}$	10,8	17	17
M10	6,0 $^{-0,05}$	8,53 $^{-0,05}$	8,5	8,5	6,5 $^{-0,25}$	11	16	14

Made in Germany

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