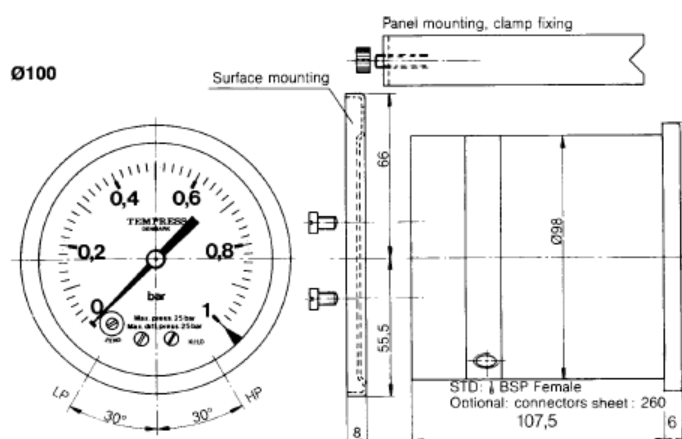


## Differential pressure gauge

### Type A20

Date: April 2019

Sheet No.: A20



#### Fields of application

- indication of pressure drops in filter
- level indication in closed or open tanks
- flow measurement in gasses and fluids

These differential pressure gauges were conceived with a special view to protecting the gauges against over pressure i operation and to eliminate the effects of operator errors during engagement and disengagement.

The measuring system consist of a single diaphragm with the high and low pressures being applied in the measuring chamber on each side of this diaphragm. The differential pressure is available as a single pointer read out on the large 270° dial. A set of calibration springs take up the resulting forces of the diaphragm and decide the displacement of the diaphragm in relation to the differential pressure.

Beyond the maximum limit for the displacement of the diaphragm it is fully supported by the specially machined measuring chamber thus allowing a **one sided load on the gauge up to the full static pressure** with no detrimental effect to the calibration and accuracy of the gauge.

The displacement of the diaphragm is converted into an angular displacement through a torsional shaft taken through the wall of the measuring shaft with negligible friction. The rotation of the shaft is transmitted through the movement of the gauge to the pointer.

The construction of the measuring system makes it unnecessary to fit an equalizing valve to protect the gauge. However, if a continuous check on the ZEPO must be maintained, it is still necessary to fit stop valves and an equalizing valve, but as the sequence of valve operations is not critical it is unnecessary to fit expensive fool proof valve units.

TEMPRESS reserves the right to changes without notice

Agent/Dealer:



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<b>Differential pressure gauge</b>	
<b>Type A20 Specifications</b>	
Date: April 2019	Sheet No.: A20

<b>Specifications</b>	
Pressure Gauge	DN 100/160 Type A20
Case material	AISI316
Front glass	Hardened
Front ring	AISI 304
Connection	ø100 mm - 1/8" BSP female. 160 mm - 1/2" BSP male.
Measuring system:	Measuring chamber in Aluminium internally coated. Diaphragm in Polyurethane Elastomer. Calibration springs in stainless steel AISI 304. Torsion shaft seal in Polyurethane Elastomer.
Range	Minimum differential pressure 80 m bar. Maximum differential pressure 7600 m bar. Maximum static and one side pressure 25 bar. ZERO adjustable through dial.
Accuracy	2.5% 100-160 m bar 1.6% 250 m bar. 1.0% 400-600 m bar 1.0,1.6, 2.5, 4 and 6 bar
Measuring units	bar, Kpa, Mpa, Kp/cm3, Kg/cm2, lb/in2, psi, mH2O mbar, "HG, cmHg,
Optional specification:	<ul style="list-style-type: none"> <li>- Liquid filled case (glycerine or silicon oil)(100M14 and 160M14)</li> <li>- Measuring system in AISI 316.</li> <li>- Ambient temperature exceeding + 700C.</li> <li>- Static pressure 50 bar.</li> <li>- Built-in contact systems.</li> <li>-Built-in opto-electronic transmitter type OPF</li> <li>- Colour coding and/or company emblem on dial.</li> <li>- Connecting thread to special order.</li> <li>- Flush panel mounting with frontflange or clamp.</li> </ul>

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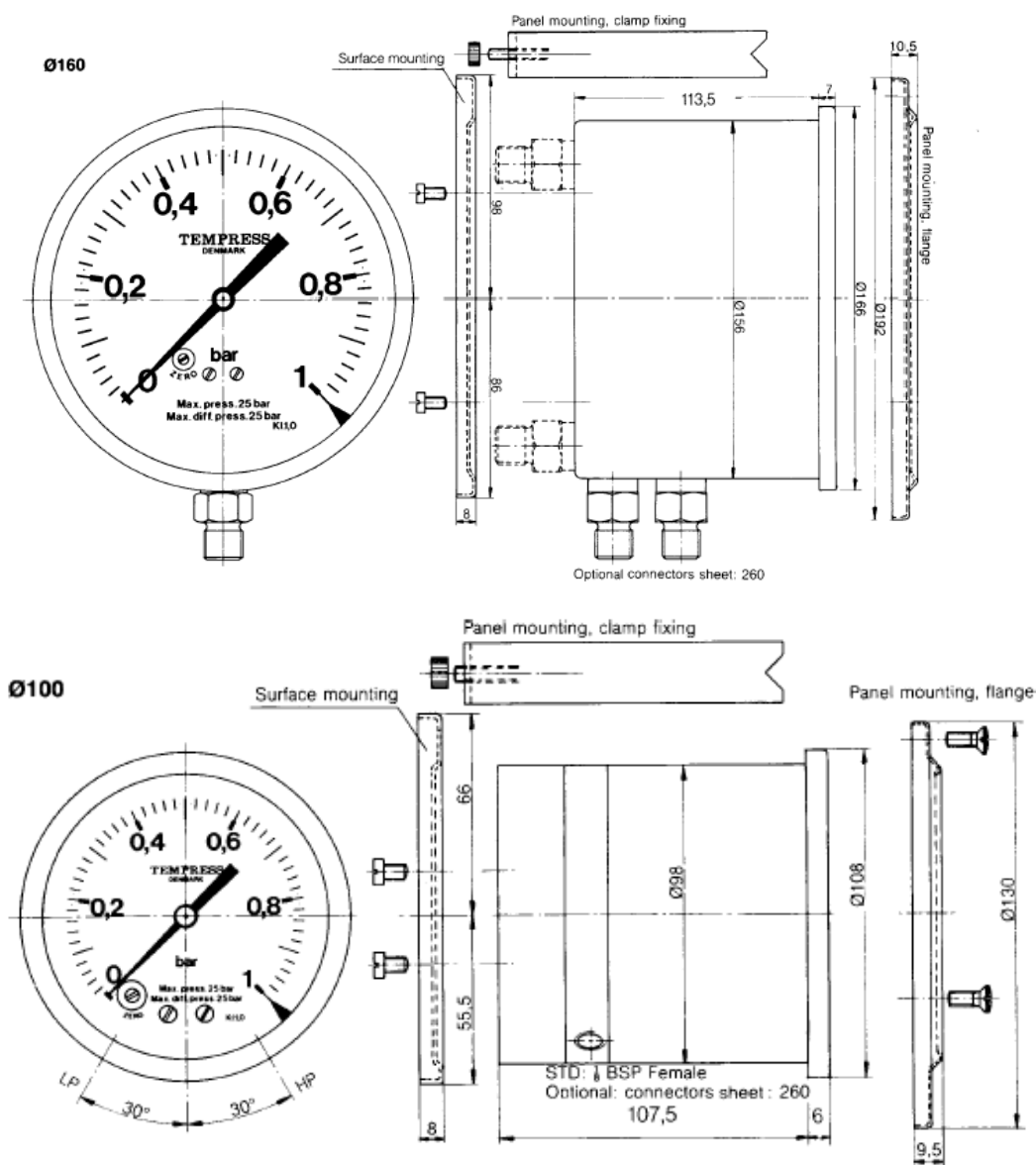
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## Differential pressure gauge

### Type A20 Drawings

Date: April 2019

Sheet No.: A20



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