Industrial (Wet/Wet) Differential Pressure Transducers

HT-SMD Series

- High accuracy & reliability
- Ranges 150 mbar to 100 bar
- Line pressures up to 2,000 bar
- 3 wire voltage output
- Temperature -40°C + 125°C
- Compact and rugged design

The HT-SMD is a compact twin port differential sensor suitable for use with gases or fluids. Designed to withstand high line pressure and offering stainless steel wetted materials on both high and low sides, it can be used for a wide variety of applications. Examples include fuel, hydraulic and air filtration systems.

Discover more at www.hydrotechnik.co.uk
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TECHNICAL SPECIFICATIONS

Pressure Measurement
- Differential Pressure (DP) ranges available from 150 mbar FS up to 100 bar FS
- Line pressures from 3 bar to 2,000 bar maximum
  Note: DP range/line pressure rating must not exceed a ratio of 1: 20 maximum
- Electrical:
  3 wire voltage or ratiometric output. 0-10Vdc at 24V supply or ratiometric 0.5 - 4.5Vdc at 5V± 10% supply
  Alternative outputs available on request
- Media temperature range: -40°C to +125°C
- Compensated temperature range: -20°C to +85°C
- Ambient temperature range: -40°C to +100°C

Performance
- Accuracy: Non-linearity, hysteresis and non-repeatability at room temperature according to IEC 61298-2 (or BSFL/Best Fit Straight Line) <0.5% FS range (<0.25% BFSL)
- Temperature effects: Zero/Span typical thermal coefficients <0.15% FS range/ 10°C
- Total Error Band: 1% FS from room temperature to -20°C to +85°C
- Long term stability: <0.1% FS range/ year
- Response time: <10ms (from 10% to 90% FS range)
- Vibration resistance: 15g (according to IEC 68-2-6 and IEC 68-2-36)
- Shock resistance: 1000g (according to IEC to 68-2-32)
- Ingress protection: IP65

Physical
- Material: body - stainless steel pressure inlet port - stainless steel
- Process connection: G 1/4 A, 1/4NPT, M12 x 1.5, M14 x 1.5
  Other connections available on request
- Electrical connection: 1 metre integral cable.
  Other connections available on request
- Weight: approximately 400g (dependent upon configuration)

Options
(1) additional cable (per metre - please specify length)
For further options or customised products please contact us.

Example of HT-SMD with customised packaging as below

Example product: HT-SMD Series with integral PTFE cable
Overall dimensions approx: 125mm (Length) x 40mm (Diameter)

Related products
Hydrotechnik manufactures a wide range of sensors, test and measurement equipment.
Contact us for further information or visit www.hydrotechnik.co.uk
Continuing development can necessitate specification changes without notice

ORDERING INFORMATION
1. Pressure range: e.g. 100 bar gauge
2. Electrical output: e.g. 3 wire, 0 -10Vdc
3. Process connection: e.g. G 1/4 A
4. Electrical connection: e.g. 1 metre cable
5. Options required: e.g. additional cable - specify overall length