

Датчики давления дифференциальные DELTA ОНМ серии HD402

Технические характеристики

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Набережные Челны (8552)20-53-41
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Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Easy & quick control of relative or differential pressure

The presence of very pure air, i.e. with a very low content of microparticles of suspended dust, is in some fields mandatory. In the **industrial and scientific research** and **microelectronics industry** in general, in the field of bottling and food and moreover in the **pharmaceutical field, cleanrooms** are used to always ensure a controlled atmosphere.

Especially in these applications, a highly precise and reliable instruments are indispensable for the measurement of differential pressure.

The series of small and compact transmitters HD402xT... is suitable for measuring relative pressure with respect to atmosphere or differential pressure in the range from **as low as 0-50 Pa to 0-200 kPa**.

These transmitters use a silicon piezoresistive sensor with high accuracy and temperature compensation, which **has excellent linearity, repeatability and stability** over the time. Thanks to the particular sensor used, the transmitters are insensitive to orientation and position. Moreover, the **high stability** of the sensor over the time and in comparison to the changes in temperature allows the elimination of the operations of maintenance typically required to **compensate for the aging and the deviation of the sensor zero**.

Depending on the needs, the wide variety of the models offer an output signal of the sensor that is converted into a **digital RS485 Modbus-RTU output** (HD402ST), into a **voltage 0...10 V** or active current **0...20 mA / 4...20 mA analog output** (HD402T) or into a **2-wire (current loop) 4...20 mA analog output** (HD402AT).

Technical Specification

Output	HD402T...: Active analog 0...10 Vdc ($R_{L\min} = 10 \text{ k}\Omega$) or 0...20 or 4...20 mA ($R_{L\max} = 500 \Omega$) HD402AT...: 2-wire (current loop) 4...20 mA ($R_{L\max} = (\text{Vdc}-12)/0,022$) HD402ST...: Digital RS485 Modbus-RTU
Power Supply	HD402T...: 24 Vac ± 10% or 18...40 Vdc HD402AT... and HD402ST...: 12...30 Vdc
Absorption	HD402T... and HD402AT...: < 1 W @ 24 Vdc HD402ST...: < 100 mW @ 12 Vdc
Pressure connection	Ø 6.2 mm pressure inputs
Compatible media	Air and non-aggressive dry gases

Series HD402T...L

HD402AT...L

HD402ST...L

PRESSURE TRANSMITTER



| Small and compact

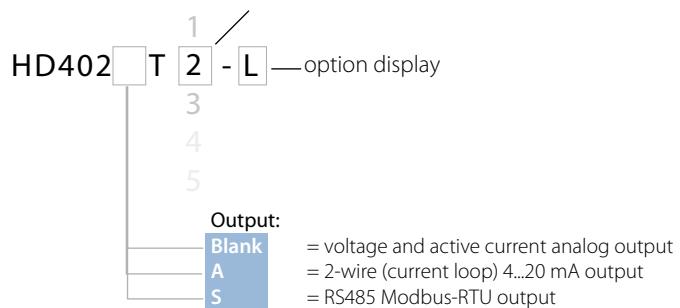
| Modbus version

| 2-Wire version for quick and easy installation

| Excellent long-term stability

| IP65

Depending on the nominal full scale



	Accuracy @ 25 °C	Measuring range	Resolution
HD402T/ST/AT 1	± 1.5% f.s. nominal	± 50/100/250 Pa (also in mmH ₂ O, inchH ₂ O, mbar)	0.1 Pa (also in mmH ₂ O, inchH ₂ O, mbar)
HD402T/ST/AT 2	± 0.75% f.s. nominal	± 250/500/1000 Pa (also in mmH ₂ O, inchH ₂ O, mbar)	1 Pa, (also in mmH ₂ O, inchH ₂ O, mbar)
HD402T/ST/AT 3		± 2.5/5/10 kPa (also in mmHg, PSI, mbar)	0.01 kPa, (also in mmHg, PSI, mbar)
HD402T/ST/AT 4	± 1% f.s. nominal	± 25/50/100 kPa, (also in mmHg, PSI, mbar)	0.1 kPa, (also in mmHg, PSI, mbar)
HD402T/ST/AT 5		± 50/100/200 kPa (also in mmHg, PSI, mbar)	0.1 kPa, (also in mmHg, PSI, mbar)

Series HD402TR...L

LOW PRESSURE CONTROLLERS WITH ON/OFF RELAY SWITCH OUTPUT

Pa - kPa - mbar - mmH₂O - inchH₂O - mmHg - PSI

- Rugged technopolymer case
- Relay output
- Configurable from your PC
- Manual setting possible with push buttons
- Visible (LED) alarm and audible alarm
- Settable thresholds, hysteresis and delay
- Auto-zeroing feature in the low range model to ensure **highest precision** and excellent long term stability
- Clear LCD display with measured value
- Wide selection in ranges
- Selectable units of measurement
- **Excellent linearity**, repeatability and stability
- Very low maintenance
- Factory calibrated



Operating condition	-10...+60 °C / 0...95% RH
Response time	0.5 seconds for the display updating
Storage temperature	-20...+70 °C
IP protection	IP65
Pressure connection	Ø 6.2 mm pressure inputs
Absorbtion	< 1 W @ 24 Vdc
Power supply	24 Vac ± 10% or 15...36 Vdc
Compatible Media	Air and non-aggressive dry gases

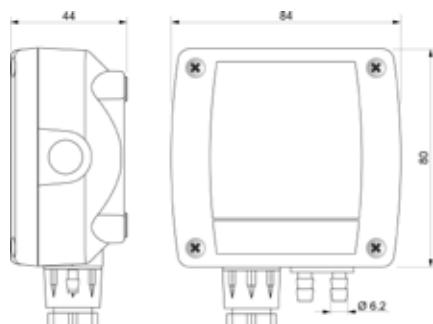
Technical specification

	Accuracy@25°C	Measuring range	Resolution
HD402TR1L	± 1.5% f.s. nominal	± 250 Pa, (also in mmH ₂ O, inchH ₂ O, mbar)	0.1 Pa, (also in mmH ₂ O, inchH ₂ O, mbar)
HD402TR2L	± 0.75% f.s. nominal	± 1000 Pa, (also in mmH ₂ O, inchH ₂ O mbar)	1 Pa, (also in mmH ₂ O, inchH ₂ O mbar)
HD402TR3L		± 10 kPa, (also in mmHg, PSI, mbar)	0.01 kPa, (also in mmHg, PSI, mbar)
HD402TR4L	± 1% f.s. nominal	± 100 kPa, (also in mmHg, PSI, mbar)	0.1 kPa, (also in mmHg, PSI, mbar)
HD402TR5L		± 200 kPa, (also in mmHg, PSI, mbar)	0.1 kPa, (also in mmHg, PSI, mbar)

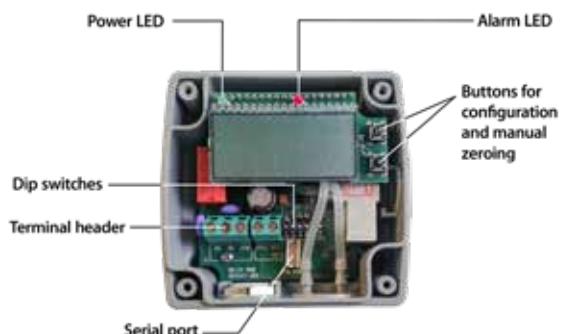
Applications

- Control of HVAC
- Control of filters
- Cleanrooms monitoring
- Pneumatic control
- Respirators
- Vaporizers

Dimensions



Internal view



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