



Application

The sensor is designed to determine the absolute atmospheric pressure. The optional outgoing analogue signal can be used for meteorological purposes or as input signal for control and regulation applications.

Construction and Mode of Operation

With a piezoresistive pressure sensor and signal conditioning electronic the actual air pressure will be transformed into a proportional standardised electrical output and is displayed with an resolution of 0.1 hPa. Switchboard housing, low weight and low power consumption.

Technical Data

display	: LED type 4 ½ digit; high of figures 13.2 mm (LCD type with back lit on request)
accuracy	: ± 0.5 hPa at 20°C (over measuring range)
temperature error	: max. ± 0,006 % FS /K -20 ... 40°C
temperature hysteresis	: ± 0,5 hPa (remaining offset shift after exposure to -25 oder 40°C) *
Vcc offseterror	: max ± 0,01 % FS / V (offset shift with supply voltage different from test certificate)
position error	: ± 0.1 hPa for 90° (0° with perpendicular wall mounting)
settling time	: ca. 10 min
measuring range	: 900 ... 1050 hPa
working range	: 200 ... 1060 hPa
over pressure	: 0 ... 4000 hPa
operating voltage	
331201, 331202	: 8 ... 24 VDC
331203, 331204	: 13 ... 28 V DC
operating current	: typical 150 mA, max. 200 mA
electronic outputs	
331201	: none
331202	: 0 ... 5 V, load resistance > 10 kOhm;
331203	: 0 ... 5 V, load resistance > 10 kOhm; 4 ... 20 mA, load resistance 0 ... 500 Ohm
331204	: 0 ... 5 V, load resistance > 10 kOhm; 0 ... 20 mA, load resistance 0 ... 500 Ohm
mounting	: switchboard case 144 x 144 x 64 mm
operating temperature	: -25 ... +70 °C*
protection rating	: IP 20
weight	: approx. 200 g
Connection chart	1 output 0...5V 2 output ground 3 output 20 mA (for 331203, 331204) 4 output ground 5 power supply / optionally 24 VAC±10% 6 supply ground / optionally 24 VAC±10%

* additional hysteresis effect at the temperature above 40°C

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