



Description:

Electronic measuring sensor Series 3311 serves for transformation of air pressure value to electric signal. It is designed for operation in meteorology and environmental observation, e.g. automatic weather stations, at airports, on research vessels, at industrial sites, for mobile measuring systems etc.

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. The dust and water resistant synthetic housing (ABS) of the sensor will protect the electronic against the influence of the weather. A sinter filter on the bottom of the housing ensures the necessary pressure balance.

Technical Data

accuracy	: $\pm 1,0$ hPa at 20°C
position error	: ± 0.1 hPa for 90° (0° with perpendicular wall mounting)
temperature error	: max. ± 0.006 % FS /K at the range -20 ... 40°C
settling time	: approx. 10 min
working range	: 200 ... 1060 hPa
over pressure	: 0 ... 4000 hPa
operating voltage	: 8 ... 24VDC
operating current	: typical 20 mA, max. 50 mA
electronic output	: 0.3 ... 4.9 V (for working range), load resistance > 10 kOhm
mounting	: on perpendicular walls with two screws through two holes with an diameter of 4.5mm outside of the protected area of the housing
operating temperature	: -25 ...70 °C*
protecting	: IP 54
cable	: LiYCY 4 x 0,2 mm ² ;
dimension:	:52 x 50 x 35 mm, weight approx. 70 g

Connection chart

	position	colour	connection
1	1	yellow	output 0.3 ... 4.9V (according to test certificate)
2	2	green	output ground
3	3	blue	supply ground
4	4	red	supply 8...24VDC
		green/yellow	cable screen

* additional hysteresis effect at the temperature above 40°C

The Fischer company reserves the right to make changes/improvements to their products and to their specifications at any time without prior notice to anyone.

