APA

Air Pressure Analog

Art.-No. 67.25

The Air Pressure Analog APA is an analogue pressure sensor in a polyamide housing to measure air pressure for compensation.

Technical Data	
Dimension:	120x120x90 mm or further upon request
Protection type:	IP 66
Measuring range:	800 up to 1200 mbar
Linearity:	< ±2 mbar
Resolution:	0.1 mbar
Temperature range:	-10 up to +60 °C
Humidity:	0 up to 95 % (non-condensing)

SENSOR TYPES

SENSORTYPE AU

AU PIEZORESISTIVE PRESSURE SENSOR, 4-CONDUCTOR SYSTEM

Supply	Constant current 1 mA
Optional supply	4 mA or 10 V_{DC}
Output signal	0 – 250 mV
Overload protection (1 – 50 bar)	50 % f. s.
Linearity incl. hysteresis	< 0.5 % f. s.
Linearity incl. hysteresis (opt.)	< 0.1 % f. s.
Thermal zero drift	0.025 mV/ °C
Operating temperature range	+5 to +80 °C
Storage temperature range (dry)	-40 to +100 °C
Long-term temperature-dependent drift (at 0 °C to 50 °C), typ.	0.25 mV
Max. line length	500 - 1000 m*

SENSORTYPE AI

AI PIEZORESISTIVE PRESSURE SENSOR WITH A BUILT-IN AMPLIFIER

Supply	15 to 30 V
Output signal	4 – 20 mA
Overload protection (1 – 50 bar)	50 % f. s.
Linearity incl. hysteresis	< 0.5 % f. s.
Linearity incl. hysteresis (opt.)	< 0.1 % f. s.
Operating temperature range	+5 to +60 °C
Storage temperature range	-15 to +100 °C
Temperature coefficient	< 0,01 %/ °C f. s.
Burden	(U_s-9 V) : 20 mA
Initialisation time after witching on	6 seconds
With optional AD 590 temperature sensor, output signal 1 µA/K	
Max. line length	1000 - 2000 m*

*Dependent on the number of sensors and line length

GLÖTZL