

Model GEO-DPT3529

Differential Pressure Sensor



Features

- Ranges from -50...+50 Pa to -500...+500 Pa
- High accuracy, repeatability and zero stability
- Fully calibrated and temperature compensated
- Two analog outputs settable to 4-20 mA or 0-10 V
- RS485 Modbus RTU digital interface

Specifications

Measured media	Dry clean air without dust, oil, mist, or aggressive compounds
Ranges	GEO-DPT3529-50: -50...+50 Pa GEO-DPT3529-500: -500...+500 Pa
Resolution	0,1 Pa
Sensing method	Thermal microflow
Gas flow through sensor	23 ml/min for ± 50 Pa range 100 ml/min for ± 500 Pa range
Max. overpressure	10 kPa
Zero point accuracy	$\pm 0,2$ Pa, stability $< 0,1$ Pa / year
Span accuracy	$\pm 3\%$ of reading
Temperature effect	$< 0,5\%$ of reading per 10°C
Atm. pressure effect	$< 0,1\%$ of reading per hPa
Power supply	12...36 VDC (default) 24 VAC as option
Power consumption	< 1 W
Digital interface	RS485, Modbus RTU protocol
Analog outputs	2 \times 4-20 mA / 0-10 V, user switchable
Analog output scales	Freely adjustable within range
Standard output scales	0 - 25 Pa, -25...+25 Pa, 0 - 50 Pa, -50...+50 Pa, 0 - 100 Pa, -100...+100 Pa, 0 - 250 Pa, -250...+250 Pa, 0 - 500 Pa, -500...+500 Pa
Enclosure protection	Dark grey ABS plastic, wall mount, class IP65
Dimensions	H82 \times W80 \times D55 mm
Pressure ports	$\varnothing 4,0...4,9$ mm, for 4/6 mm hose
Operating environment	Business and industrial spaces
Operating conditions	-20...+80 $^\circ\text{C}$, 35...85%RH

