



BUILT FOR DATA OF RECORD



Specifications

Sensor Technology	Trench-Etched Resonant Pressure Sensor (TERPS)
Sensing Elements	One, two, or three independent pressure cells
Reported Resolution	0.001 hPa
Measurement Uncertainty	■ ± 0.10 hPa at 20°C ■ ± 0.15 hPa full range
Measurement Noise	<0.03 hPa RMS
Long-Term Stability	0.05 hPa/year
Pressure Range	450 to 1150 hPa
Time Constant	2 s to 63% of a step change
Measurement Rate	1 Hz over serial communications
Operating Temperature Range	-60° to +85°C
Digital Interfaces	SDI-12 v1.4, RS-232, RS-485 (SDI-12 can operate concurrently with RS-232 or RS-485; serial ports are compatible with the Vaisala PTB330 serial protocol.)
Processed Outputs	Include QFE, QNH, three-hour pressure tendency code
Local Service Port	USB-C (configuration, data access, and power)
Onboard Data Logging	1+ year of 1 Hz pressure data

Supply Voltage	9 to 36 Vdc (USB-C supplies 5 V for setup and test only)
Overpressure Limit	>5000 hPa absolute
Operating Current	■ 29.62 mA at 9 Vdc ■ Heater approximately 1.3 A while active
Mounting Description	Diamond backplate; standard DIN rail with mounting kit
Cable Connector Type	M12 eight-pin connector on shielded, twisted-pair cable at lengths verified up to 152.4 m (500 ft)
Desiccation	Replaceable desiccant is in the sensor housing. In-line desiccant is available as an accessory.
Calibration	Standard factory calibration is traceable to NIST or another National Metrology Institute (NMI) with each BaroVue 30. Optionally, ISO/IEC 17025-accredited calibration certificates and a measurement uncertainty record are also available.
Performance Class	Meets or exceeds Class A
Enclosure Material	IP65-rated aluminum
Enclosure Dimensions	15.75 x 9.91 x 5.84 cm (6.2 x 3.9 x 2.3 in.)

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