

BP1 Barometric Pressure Sensor

This top quality sensor is made in Switzerland for Adcon Telemetry. It employs a stable, piezo-resistive transducer and a micro-processor with integrated 16 bit A/D converter. Temperature dependencies and non-linearities of the sensor are mathematically compensated for, up to 80°C. The sensor has a very low power consumption and produces an analogue output signal of 0.1 - 2.5VDC

To protect the sensor against wind induced measurement errors it is mounted in a polycarbonate case, equipped with a Goretex breather vent.

The BP1 enclosure features a mounting bracket suitable for mounting on Adcon's 40mm aluminium pole set using the supplied stainless steel hose clamp. The BP1 is fitted with a 3m cable and 7pin Binder connector, for direct connection to an Adcon RTU.



Technical data

Dimensions of sensor	121mm x 21mm Ø	Measuring range	500 ... 1500 mbar
Dimensions of case	145x90x70mm (incl. mast bracket, cable gland and goretex vent)	Vibration endurance (IEC 68-2-6)	20g (5 ... 2000 Hz, max. amplitude ± 3 mm)
Weight (incl. 3m cable)	500 g	Isolation	> 100 M / 50V
Protection class	IP-67 (sensor: IP68)	Output signal	0.1 ... 2.5VDC
Temperature range	-20°C ... +80°C	Linearity	0.025%FS
Material sensor	Stainless steel 316L (DIN 1.4435)	Accuracy FS	0.1%FS (0°C ... +80°C)
Material case	Polycarbonate	Long Term Stability	Range ≤ 1bar: 1mbar Range > 1bar: 0.1% FS
Material cable	Polyethylene (PE)	Power Supply	3.5V ... 12VDC @ < 3mA
Connector	7-pin Binder M9 male	CE-Conformity	EN 61000-6-1 to -6-4
Measuring method	piezo resistive	Ordering Information	
Pressure endurance	10 Million pressure cycles 0...100%FS at 25°C	200.733.111	BP1 with 3m of cable
Shock endurance	20g (11ms)		