



## Barometric Pressure Sensor

Piezo-resistive transducer and micro-processor with integrated A/D converter

### Top quality

Temperature dependencies and non-linearities are compensated

Very low power consumption

Protection against wind induced measurement errors

Analogue output signal

Easy installation

### **Top quality from Switzerland**

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 ... 2,5 VDC.

### **Protection against errors**

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

### **Easy installation**

The BP1 enclosure features a mounting bracket suitable for mounting on Adcon's 40mm aluminum 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 Specifications

	Feature	Value
MEASUREMENT	Measuring method	piezo-resistive
	Pressure endurance	10 million pressure cycles 0 ... 100%FS at 25°C
	Shock endurance	20g (11ms)
	Measuring range	500 ... 1500 mbar
	Vibration endurance (IEC 68-2-6)	20g (5 ... 2000 Hz, max. amplitude ± 3 mm)
	Connector	7-pin Binder M9 male
	Linearity	0,025%FS
	Accuracy	0,1%FS (0°C ... +80°C)
	Long Term Stability	Range ≤ 1bar: 1mbar, Range > 1bar: 0,1% FS
ELECTRICAL DATA	Isolation	> 100 MΩ / 50V
	Output signal	0,1... 2,5VDC
	Power Supply	3,5V ... 12VDC @ < 3mA
ENVIRONMENTAL CONDITIONS	Protection class	IP-67 (sensor: IP68)
	Temperature range	-20°C ... +80°C
DIMENSIONS & WEIGHT	Dimensions of sensor	121mm x 21mm Ø
	Dimensions of case	145 x 90 x 70mm (incl. mast bracket, cable gland and goretex vent)
	Weight (incl. 3m cable)	500 g
MATERIAL	Material sensor	Stainless steel 316L (DIN 1.4435)
	Material case	Polycarbonate
	Material cable	Polyethylene (PE)
EMC/EMI AND NORMS	CE-Conformity	EN 61000-6-1 to -6-4