






WATER & AIR

Air Pressure Sensors

-  Range of Sensors to suit different environments and data loggers/data acquisition systems
-  Housing suitable for indoor or continuous outdoor use
-  Available with a range of mounting accessories



These sensors compliment Skye's range of meteorological instruments and are ideally suited for use with the MiniMet and the DataHog loggers. There is a family of three barometers offered for the measurement of air pressure.

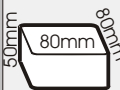
The range covers temperature compensated and

non-temperature compensated pressure transducers (reflected in the price) contained in a waterproof housing. Outputs from the sensor can be differential or single-ended, depending on the model chosen.

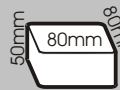
The barometer is easily mounted using four fastening holes provided (a pole arm

mount is available for this model, SKM 225 with a short bracket or SKM 226 with a long bracket).

SKPS 810

Range	Compensated range	Non-linearity & hysteresis	Repeatability	Temp. shift (-10° to +60°C)	Response time	Long term stability	Power supply	Output	Operating temperature	Dimensions
0.80-1.10 bar	-10°C to +60°C	0.1% FSO (max)	0.2% FSO (max)	0.3% FSO/10°C (max)	typically 1 msec	0.1% FSO (max)	5-24 VDC	0-5 V ±500mV	-40 to +85°C	

SKPS 800

Range	Resolution	Absolute error	Error over 0-50C	Power Supply	Output	Operating Temperature	Dimensions
0.50-1.05 bar	Better than 0.1 mbar	Typically 0.5 mbar at 20°C and 1000 mbar (maximum 1.0 mbar)	Typically 1.5 mbar (maximum 3.6 mbar)	5-10V	Norminally 100mV/1000 mbar at 10V excitation	-20 to +80°C	

SKPS 820

Range	Sensitivity	Calibration error	Longterm stability of calibration	Error effects of temperature	Input impedance	Output impedance	Common mode offset of output
0-1100 mBar	Typically 9.3 mBar/mV (at 10V excitation)	At 20°C typically 1 mBar. N.B. Output is fully ratiometric with respect to excitation voltage	0.1% of span typically per year	(Relative to 25°C) over the range 0-+70°C. Span- typical error 0.2% of span, maximum error 0.2% of span, maximum error 1.0% of span. Zero- typically error ±100 microvolts	4000	4000	Typically voltage excitation/2

ORDERING INFORMATION

Sensor

- SKPS 800 Air pressure sensor, temperature compensated
 SKPS 810 Air pressure sensor, 0-5v, temperature compensated
 SKPS 820 Air pressure sensor

Accessories

- SKM 221 Short arm pole/wall mount
 SKM 226 Long arm pole/wall mount

Meters and dataloggers

- SDL 5000 series DataHog datalogger

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