






# 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.

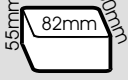
The range covers temperature compensated and

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).


## SKPS 800

Range	Resolution	Absolute Error	Error over 0-50 Deg.C	Power Supply	Sensitivity (all devices)	Operating temperature	Housing dimensions	Current Consumption
0 - 1050 mBar	Better than 0.05mBar	Typical less than 0.5mBar  Max 1.0mBar at 100mBar and 20 deg C.	Typical less than 1.5mBar  Max less than 3.6mBar	1 to 10 volts (excitation)	100mV (+/- 3mV) per 1000mBar at 10V excitation	-20 to 80 deg C.	 Plus 20mm vent on base	Less than 10mA at 10V

## SKPS 810

Range	Resolution	Absolute Error	Temperature Error over -10 to +60°C	Power Supply	Output	Operating Temperature	Housing dimensions
800 - 1100 mBar	Better than 0.05mBar	Typical less than 1.0mBar  Max 3.0mBar at 1000 mBar and 20 deg C.	Offset and span combined.  Typically 0.05% FSO/10°C  Maximum 0.3% FSO/10°C	8 to 24v at 10mA	60mBar/volt	-10 to +60°C	 Plus 20mm vent on base

## SKPS 820

Range	Resolution	Absolute Error	Error over 0-50 Deg.C	Power Supply	Sensitivity (all devices)	Operating temperature	Housing dimensions	Current Consumption
0 - 1100 mBar	Better than 0.05mBar	Typical less than 1.0mBar  Max 3.0mBar at 1000mBar and 20° C.	Typical less than 2.2mBar  Max less than 11mBar	1 to 10 volts (excitation)	75mV (+/-8mV) per 1000mBar at 10V excitation  N.B Each device individually calibrated and in above range	-40 to 80 deg C.	 Plus 20mm vent on base	Less than 2.5mA at 10V

## 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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