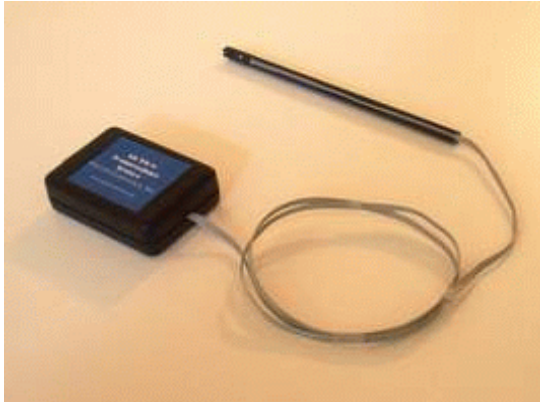




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# PCI-1008 Micro Airflow/Temperature Sensor



PCI's 1008 is a low cost, solid state, air flow sensor/switch designed to address a multitude of applications. It offers a variety of signal outputs that include: 1. Switch (electrically isolated solid state switch). 2. Analog (0-5V, PWM or 4-20 mA). 3. Digital (RS-232, I<sup>2</sup>C). This allows the device to be used in both embedded applications and as a measuring device. As a measuring device, it can be used with Polar Control's MSI-20 base unit (PCI-1055) or with third party equipment such as Lab View™.

The PCI-1008 is 100% solid state and is designed to function for years without the need for re-calibration. The device can be ordered with a variety of sensor head lengths to greatly facilitate mounting and positioning (see the third picture on the left). Separate channels for airflow and temperature, and the separation of the drive electronics from the sensor head, minimize the effect of contaminating heat sources – insuring reliable flow/temperature readings.

Characteristic	Min	Typ	Max	Units	Conditions
Supply Voltage	12	12	24	Volt D.C.	Custom input voltage versions available
Supply Current		20	50	mAmps DC	
Operating Temperature Range	0		65	Deg. C.	Extended Range Available
Humidity Range	5%		95%	RH	Non-Condensing
Measurement/Switch Airflow Range	35		3000	Ft/Min	+/- 10% Accuracy over temperature range.
Switch Hysteresis					User specified
Switch/PWM Isolation			2500	VAC	
Switch/PWM Blocking voltage			350	Volts	
Switch/PWM Current			100	mAmps	
Voltage Output	0		5	Volts D.C.	