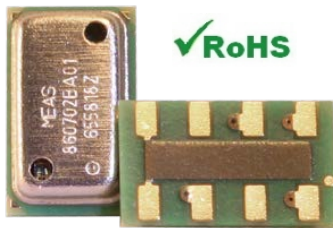


PRELIMINARY

measurement
 SPECIALTIES™
 

MS8607-02BA01 PTH Fusion Sensor



- Integrated pressure, temperature and humidity sensor
- QFN package 5 x 3 x 1 mm³
- Operating range: 10 to 2000 mbar, 0%RH to 100%RH, -40 to 85 °C
- High-resolution module: 0.016 mbar, 0.04%RH, 0.01°C
- Supply voltage: 1.5 to 3.6 V
- Fully factory calibrated sensor
- I²C interface

DESCRIPTION

The MS8607 is the novel digital fusion sensor of MEAS providing 3 environmental physical measurements all-in-one: pressure, temperature and humidity (PTH). This product is optimal for applications in which key requirements such as ultra low power consumption, high PTH accuracy and compactness are critical. High pressure resolution combined with high PTH linearity makes the MS8607 an ideal candidate for environmental monitoring and altimeter in smart phones and tablet PC, as well as PTH applications such as HVAC and weather stations. This new sensor module generation is based on leading MEMS technologies and latest benefits from Measurement Specialties proven experience and know-how in high volume manufacturing of sensor modules, which has been widely used for over a decade.

FEATURES

TECHNICAL DATA

Sensor Performances (V _{DD} = 3 V)									
Characteristics	Pressure [mbar]			Relative Humidity [%RH]			Temperature [°C]		
	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max
Max. Operating Range	10		2000	0		100	-40		+85
Absolute Accuracy @25°C	300...1200mbar			20...80%RH			@ 25°C		
	-2		2	-3		3	-1		1
Resolution (highest mode)		0.016			0.04			0.01	

FIELD OF APPLICATION

- Smart phones and Tablet PCs
- HVAC applications
- Weather station
- Printers
- Home Appliance and humidifiers

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