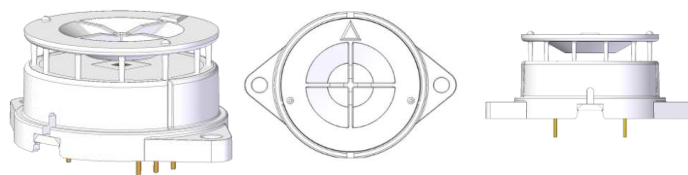


Light breeze sensor

MMS002XA



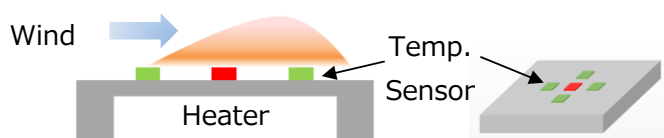
Description

MMS002 series is a light breeze sensor that digitally outputs wind direction and velocity. Having an original high-sensitive sensor element, MMS00x can detect gentle breeze of 0 to 3 m/s. AFE's NVM has the parameters for correcting each sensor's individual variation of characteristics and temperature characteristics. Then you can easily calculate corrected wind velocity and direction from these parameters and data by using your host micro-computer.

Application

Indoor environment measurement

Features



Features

- ① Downsizing with MEMS thermal sensors
- ② Wind velocity correction parameters can be loaded from the NVM.

Specification

Item	Specification
Supply Voltage Range	2.4 to 3.6V (3.3V typ.)
Operating Temperature Range	0 to 40℃
Wind velocity range	0 to 3 m/s
Wind velocity error	0 to 1.0m/s: $\pm(0.1\text{m/s}+5\%\text{RD})$ 1.0 to 3.0m/s: $\pm25\%\text{RD}$
Wind direction range	0 to 360 deg
Wind direction error	±15 deg (0.3 to 3 m/s)
Sampling rates	0.5 s
Current consumption	0.7mA typ.
Interface	I2C
Size	$\Phi 20(30.5) \times 15.5$

Application example

Reduce factory defects, increase productivity



Energy saving in clean rooms



Improving office comfort and saving energy

