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Outline

MMS00x series is a breeze sensor that digitally outputs wind direction and velocity. Having an original highsensitive 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.

Applications

Indoor environment measurement

Features

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

Main specifications

Operating supply voltage [V]	2.4~3.6
Operating Temperature Range [deg.C]	0~40
Wind velocity range [m/s]	0~3
Wind velocity error (0 to 0.5m/s) [m/s]	±0.15

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MMS00x

Wind velocity error (0.5 to 3m/s) [%RD]	±30
Wind direction range [deg]	0〜360
Wind direction error (0.5 to 2m/s) [deg]	±15
Sampling rates [sec]	0.5
Current consumption typ. [mA]	0.7
Interface	I2C
Package Size [mm]	30.5(Φ20)×15.5(H)

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