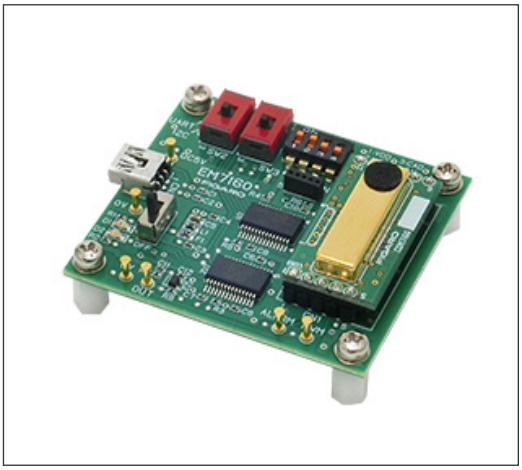
EM7160 - Evaluation Module for CDM7160

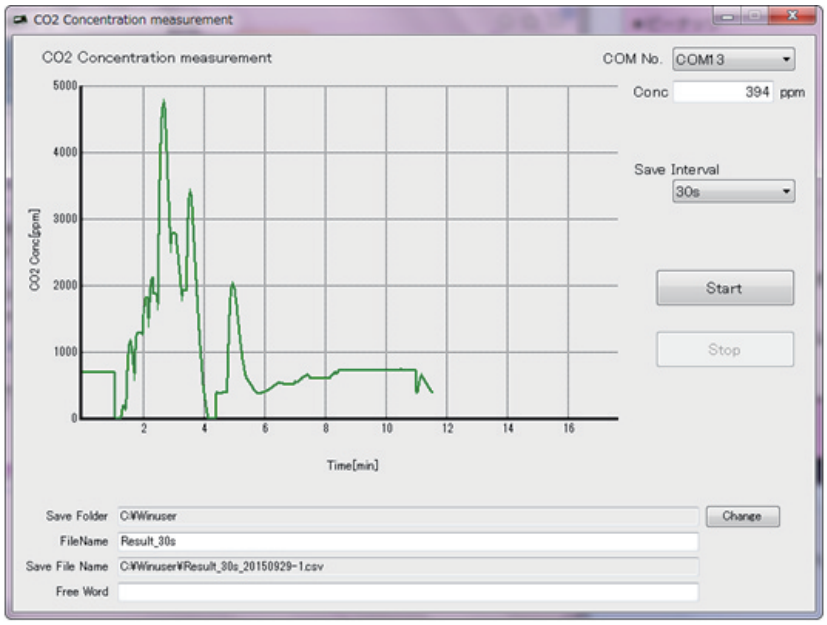
Features:

* **Serial data output, PWM output, and voltage output of measurement data from CDM7160 sensor module**
* **Stores measurement data in PC using PC application software**
* **Displays measurement data on a PC monitor**
* **Control CDM7160 operations using PC software**



The **EM7160** evaluation module is designed to facilitate evaluation of the characteristics of the CDM7160 carbon dioxide (CO_2) sensor module. This evaluation module provides CO_2 measurement data output in serial data format via a USB connector, PMW output, and continuous voltage output which is converted from the PWM output signal, simplifying testing of the CDM7160. With PC application software included in the package, serial measurement data from the EM7160 can be transferred to an external PC for graphically displaying real-time measurement data on a PC monitor. Measurement data are stored in CSV format in the PC and can be imported into other software such as Microsoft Excel (*Note 3*). The evaluation module comes with a sample CDM7160 sensor module which is user-replaceable, as it is inserted into pin sockets with terminal pins (*Note 1*).

PC Application Software:

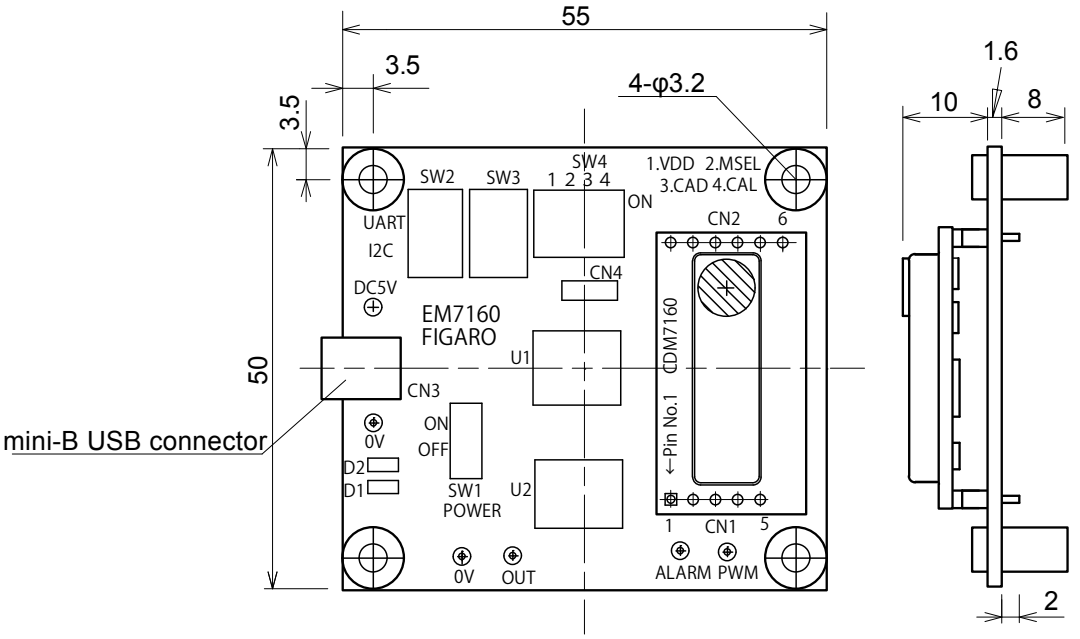


Operating System	Windows 7 (*Note 3*)
Display	Graphic display (0~5000ppm) CO_2 conc. display (0~10,000ppm)
Data File Format	CSV
Data Save Interval	2,30,60 sec., 5,10,30, or 60 min.
Data File Capacity	approx. 24 hours max. of data in each file

Specifications:

Product Name	Evaluation Module for CDM7160
Model No.	EM7160
Target Gas	Carbon dioxide
Power Supply	via USB Connector or 5.0V DC
USB Output	0~10,000ppm CO_2 (*Note 2*)
PWM Output	0~100% duty cycle for 0~5,000ppm CO_2
Voltage Output	0~5V DC for 0~5,000ppm CO_2
Alarm Output	CMOS output (*Note 2*) (High ≥ 1,000ppm Low < 900ppm)
Operating Conditions	0~50˚C/0~95%RH (no condensation) excl CDM7160 (*Note 2*)
Dimensions	approx. 50 x 55 x 19.6mm (excl protruding parts) Height includes CDM7160 and spacers
Standard Accessories	* CDM7160 CO_2 sensor module sample with terminal pins * USB memory stick containing PC application software and USB driver * Mini-B USB cable

Dimensions:



Note 1) Standard CDM7160 CO_2 sensor modules (without terminal pins) are available for additional purchase. To attach a standard CDM7160 to the evaluation module, terminal pins available in the marketplace should be soldered to the standard CDM7160.

Note 2) Please refer to the Product Information of the CDM7160 CO_2 sensor module for specification details.

Note 3) Windows and Excel are registered trademarks of Microsoft Corporation in the United States.

The contents and specifications of this product information are subject to change without notice for further improvements.

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