

## EM7162 - Evaluation Module for CDM7162

### Features:

- \* Serial data output, PWM output, and voltage output of measurement data from CDM7162 sensor module
- \* Stores measurement data in PC using PC application software
- \* Displays measurement data on a PC monitor
- \* Controls CDM7162 operations using PC software

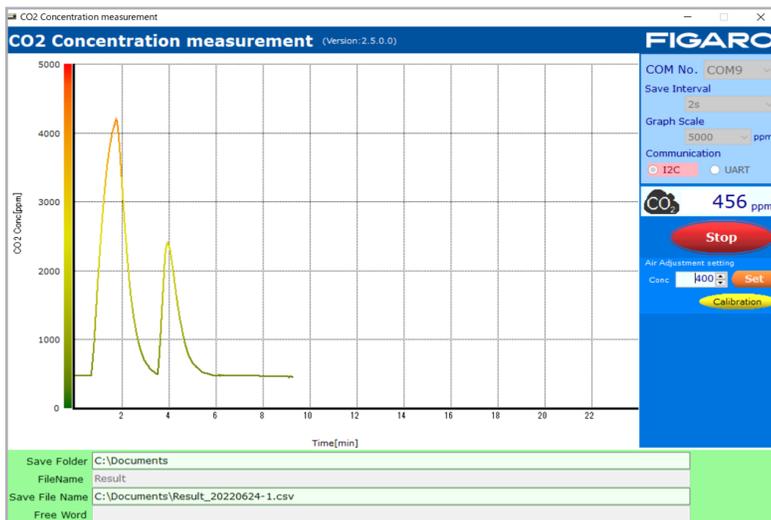
The **EM7162** evaluation module is designed to facilitate evaluation of the characteristics of the CDM7162 carbon dioxide (CO<sub>2</sub>) sensor module.

This evaluation module provides CO<sub>2</sub> 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 CDM7162. With PC application software included in the package, serial measurement data from the EM7162 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 CDM7162 sensor module which is user-replaceable, as it is inserted into pin sockets with terminal pins (*Note 1*).



### PC Application Software:

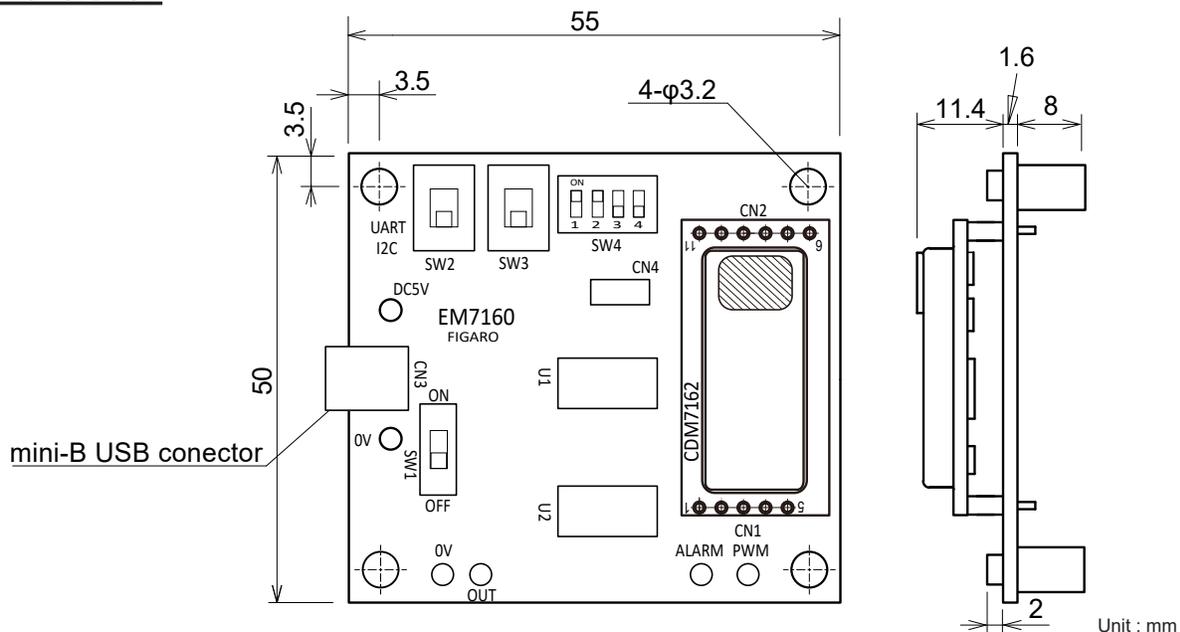


Operating System	Windows 10 ( <i>Note 3</i> )
Display	Graphic display: 0~5000ppm (65,535 ppm max) CO <sub>2</sub> conc. display: 0~65,535ppm
Data File Format	CSV
Data Save Interval	2, 30, 60 sec., 5, 10, 30, or 60 min.
Data File Capacity	approx. 24 hours max. of data in each file

### Specifications:

Product Name	Evaluation Module for CDM7162
Model No.	EM7162
Target Gas	Carbon dioxide
Power Supply	via USB Connector or 5.0V DC
Serial Output	0~65,535ppm CO <sub>2</sub> (Note 2)
PWM Output	0~100% duty cycle for 0~5,000ppm CO <sub>2</sub>
Voltage Output	0~5V DC for 0~5,000ppm CO <sub>2</sub>
Alarm Output	CMOS output (Note 2) High: CO <sub>2</sub> conc. > 1000ppm Low: CO <sub>2</sub> conc. < 900ppm
Operating Conditions	0~50°C/0~95%RH (no condensation) excl. CDM7162 (Note 2)
Dimensions	approx. 50 x 55 x 21mm (excl. protruding parts) Height includes CDM7162 and spacers
Standard Accessories	* CDM7162 CO <sub>2</sub> sensor module sample with terminal pins * USB memory stick containing PC application software and USB driver * Mini-B USB cable

### Dimensions:



Note 1) Standard CDM7162 CO<sub>2</sub> sensor modules (without terminal pins) are available for additional purchase. To attach a standard CDM7162 to the evaluation module, terminal pins available in the marketplace should be soldered to the standard CDM7162.

Note 2) Please refer to the Product Information of the CDM7162 CO<sub>2</sub> sensor module for specification details.

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

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