

Carbon Dioxide (CO₂)

M-530/M-530NL

DATA SHEET



General

M-530 series is CO₂ Monitoring product which has LCD display and give measured data 0.5-4.5V Voltage . It is fabricated to operate with 12Volt itself or with adapter 12VDC from 220VAC..

Features

- Output mode : Voltage/Current output
- Models available without LCD for sensor readings and status information
- Non-Dispersive Infrared (NDIR) technology used to measure CO₂ levels.
- Re-calibration function
: One month period / 10min period
- Size : 123mmx69mmx40mm

M-530 series Detector

Specifications

General Performance

Operating Temperature range

0 ~ 50°C

Operating Humidity range

0 ~ 95% RH (Non-condensing)

Storage Temperature

-20°C ~60°C

CO₂ Measurement

Sensing Method

NDIR (Non-dispersive Infrared)

Measurement Range

0 to 2,000/3,000/5,000/10,000/50,000 ppm

(Optional)

Accuracy

±30ppm ±5%

Response Time(90%)

150 seconds

Sampling Interval

3 sec.

Electrical Data

Input Power

9~15VDC ± 2% Regulation

Output Connector

Analog : 0.5 ~ 4.5VDC(Linear Output)

Digital: UART-38,400BPS, 8bit, No Parity, 1

Stop bit TTL Level

Connections

Connector 1 (CN1)

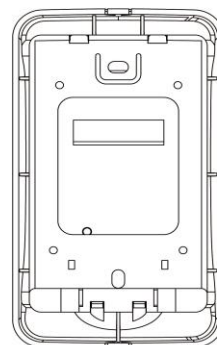
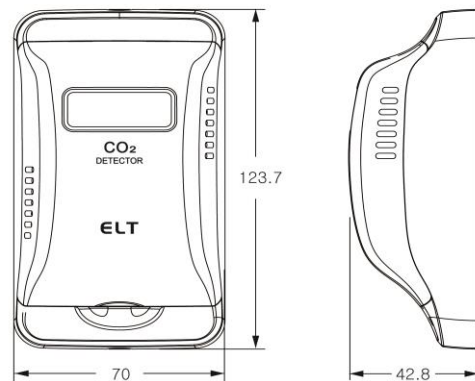
Pin No.	Name	Description
1	VCC	Power
2	AVO	Analog Voltage Output

3	GND	Power Ground
---	-----	--------------

Connector2 (CN2)

Pin No.	Name	Description
1	NC	Used for Factory Calibration
2	NC	Used for Factory Calibration
3	RX	UART RX
4	GND	Power Ground
5	NC	Used for Factory Calibration
6	NC	Used for Factory Calibration
7	MCDL	MANUAL RECAL

Dimensions (unit : mm)



ELT SENSOR Corp.

Chunui Technopark 101-909) 36, Bucheon-ro 198beon-gil, Wonmi-
gu, Bucheon-si, Gyeonggi-do, 420-857, Korea
Phone. +82-32-719-8055, <http://www.elti.co.kr>

Subject to change without notice. Printed in KOREA
2014 ELT Sensor Corp. All rights reserved.
2014. January