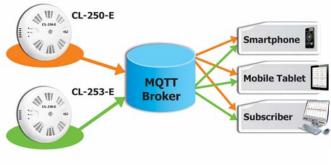


### Introduction

The CL-25X-E series of O2 and gas measurement module that measures oxygen gas (O2) in air. In addition, various fume concentrations related to human health can also be measured. For example: CO / CO2 / temperature / humidity and dew point information, including the date and time stamps, and are able to store up to 450,000 downloadable records. Real-time data can be accessed from the CL-200 data logger from anywhere and at any time using the free Windows software, the Iso App, or the Android App, as long as they are connected to the same local network as the data logger. Support is provided for common industrial protocols such as DCON, Modbus RTU, and Modbus TCP, as well as the emerging machine to-machine (M2M)/)IoT (Internet of Things) connectivity protocol – MQTT. The CL-200 data logger can be connected via widely used communication interfaces including RS-485, Ethernet and PoE, meaning that the device can be easily integrated into existing HMI or SCADA systems, ensuring trouble-free maintenance in distributed control systems



Supports the MQTT Protocol for IoT Applications

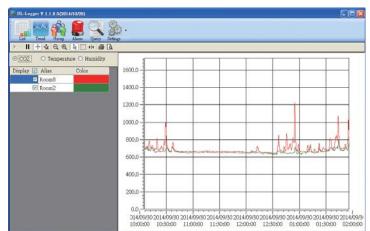
#### Multi-platform Remote Access Software

Real-time data from the CL-200 data logger can be accessed from anywhere and at any time using the DL300 Utility, the Ios or Android App, or via a regular web browser, as long as they are connected to the same local network as the data logger.



#### Simple and Powerful DL-300 Utility

The DL-300 Utility is a powerful tool that is designed for configuring the modules, monitoring real-time data, grouping DL-300 and CL-200 modules to view and manage the status of distribution groups, downloading log data, which can be exported to a CSV file that can then be imported into any industry-standard software or spreadsheet for analysis.



## **Specifications**

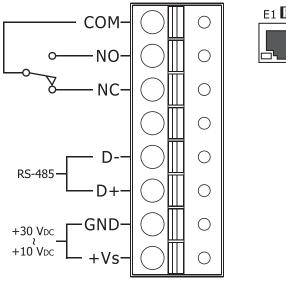
Model	CL-250-E	CL-251-E	CL-252-E	CL-253-E	
System				1	
Alarm	O2/CO/CO2/RH/T				
Data Logger	Yes, up to 450,000 records				
Real Time Clock	Yes				
CO Measurement					
Range		0 to 1000 ppm (Electrochemical)		0 to 1000 ppm (Electrochemical)	
Resolution		1 ppm		1 ppm	
Accuracy		±5% of measured value		±5% of measured value	
Response Time		30 seconds		30 seconds	
Warm-up Time	-	60 seconds	-	60 seconds	
Re-calibratable		No		No	
Offset programmable		Yes		Yes	
Replaceable (RMA)		Yes		Yes	
Life Time		5 years		5 years	
CO2 Measurement					
Range	0 to 9999 ppm (NDIR)				
Resolution	1 ppm				
Accuracy	±40 ppm ±3% of measured value				
Response Time			120 s	econds	
Warm-up Time		-		econds	
Re-calibratable			Yes. Note: Custome (Automatic Baseline Ca	ers can perform ABC libration) by themselves.	
Offset programmable				íes	
Replaceable (RMA)			Y	/es	
Life Time			15 1	/ears	
O2 Measurement					
Range		2% o	f FSR		
Resolution	0~25%				
Accuracy	0.01%				
Response Time	< 30 secs (typical)				
Warm-up Time	120 seconds				
Re-calibratable	5 years				
Offset programmable	No				
Replaceable (RMA)	Yes				
Life Time		Ye	es		
Humidity Measurement					
Range	0 to 100% RH, Non-condensi				
Resolution	0.1% RH, Non-condensing				
Accuracy	±5% RH, Non-condensing				
Life Time	10 years				



## Specifications

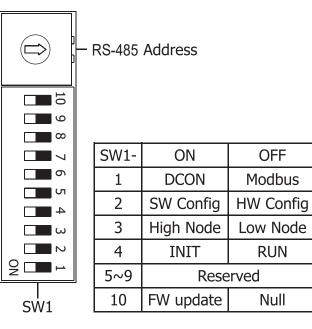
Model	CL-250-E	CL-251-E	CL-252-E	CL-253-E
Dew Point				
Range	Calculated using temperature and relative humidity			
Resolution	0.1°C			
Ethernet				
Ports	10/100 Base-TX, 8-Pin RJ-45 x1 (Auto-negotiating, Auto-MDI/MDIX, LED indicators)			
Relay Output				
Channels	30 VDC @ 10 A or 150 VAC @ 10 A	30 VDC @ 10 A or 150 VAC @ 10 A	30 VDC @ 10 A or 150 VAC @ 10 A	30 VDC @ 10 A or 150 VAC @ 10 A
COM Ports				
Ports	1 x RS-485; 1 x Ethernet			
Protocol	DCON and Modbus/RTU (RS-485); Modbus TCP and MQTT (Ethernet)			
Power				
Consumption	Non-PoE: 2.2 W (Max.) / PoE: 2.4 W (Max.)			
Powered from Terminal Block	+10 ~ +30 VDC			
Mechanical				
Installation	Ceiling Mounting/Wall Mounting			
Dimensions (D x H)	Ø 150 mm x 53 mm			
Environment				
Operating Temperature	0 to +50°C			
Storage Temperature	-30 to +75°C			
Humidity	10 to 90% RH, Non-condensing			

## **Pin Assignments & Wire Connections**

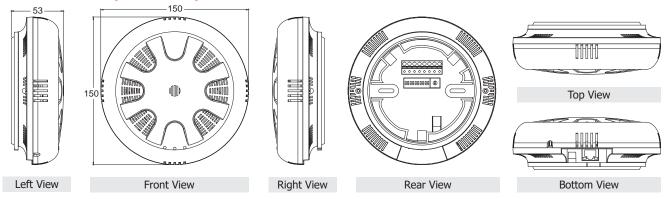




### **DIP Switch Settings**



#### **Dimensions (Units: mm)**



# Installation

Ceiling Mounting



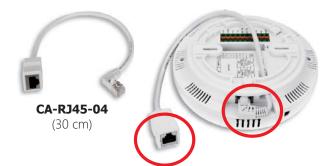
## **Wall Mounting** (+ External Wall Box EWB-C150)





## CL-2xx-E + RJ45 Cable:

CL-2xx-E (Ethernet Type) are with optional angle-bent RJ45 cable to smoothly install the Ethernet plug in the hole of the ceiling-mounted.



## Ordering Information

CL-250-E CR	Remote O2/Temperature/Humidity/Dew Point Data Logger Module (RoHS)	
CL-251-E CR	Remote O2/CO/Temperature/Humidity/Dew Point Data Logger Module (RoHS)	
CL-252-E CR	Remote O2/CO2/Temperature/Humidity/Dew Point Data Logger Module (RoHS)	
CL-253-E CR	Remote O2/CO/CO2/Temperature/Humidity/Dew Point Data Logger Module (RoHS)	

## Accessories

EWB-C150	External Wall Box for the CL-200 series
CA-RJ45-04	RJ45 Cable, Male-Female, 30cm (90°)