

CL-211/212/213



Introduction.

The CL-200 series of Data Logger devices can be used to record PM2.5, CO, CO2, Temperature, Humidity and Dew Point information, including date and time stamps, and are able to store up to 450,000 downloadable records. Real-time data can be accessed from the DL-300 Utility from anywhere and at any time using the free Windows software.Support is provided for popular industrial protocols such as DCON and Modbus RTU. The DL-300 Data Logger can be connected via widely used RS-485 communication interfaces, meaning that the device can be easily integrated into existing HMI or SCADA systems, and is easy to be maintained in a distributed control system.

System Specifications ____

Model	CL-211	CL-212	CL-213	
System				
PM2.5/CO/CO2/RH/T Alarm	Yes			
Real Time Clock	Yes			
Data Logger	Yes, up to 450,000 records			
Relay Output	Form A×1, SPST 30 VDc @ 16 A or 250 VAc @ 16 A			
Interface	RS-485			
Electrical				
Powered from Terminal Block	+10 to +30 VDC			
Power Consumption	1.0 W (Max.)	1.2 W (Max.)	1.5 W (Max.)	
Mechanical				
Installation	Ceiling Mounting/Wall Mounting			
Protection Class	IP20			
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			

Features

PM2.5, CO, CO2, Temperature, Humidity and Dew Point Measurement

- Non-dispersive Infrared (NDIR) CO2 Sensor
- Up to 450,000 records with date and time stamps
- Support DCON and Modbus RTU Protocols
- Providing RS-485 Communication Interface
- Relay Output for Alarm Device or IAQ Device Control

Applications -

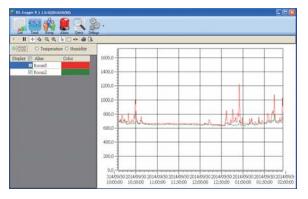
- Transportation of Food or Pharmaceuticals
- Food and Beverage Industry (HACCP)
- Blood Stations and Pharmacies
- Building and Energy Management
- Warehouse Management
- Museums, Archives and Galleries

____ 🖿 I/O Specifications _

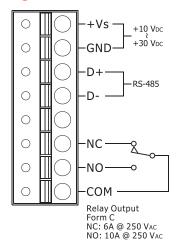
Model	CL-211	CL-212	CL-213			
PM2.5 Measure	ement					
Range	0 ~ 400 µg/m3					
Resolution	1µg/m3					
Response Time	<= 1 min.					
CO Measureme	ent					
Range	0 to 1000 ppm (Electrochemical)	-	0 to 1000 ppm (Electrochemical)			
Resolution	1 ppm	-	1 ppm			
Accuracy	±5% of measured value	-	±5% of measured value			
Response Time	30 seconds	-	30 seconds			
Warm-up Time	60 seconds	-	60 seconds			
CO2 Measurem	CO2 Measurement					
Range	-	0 to 9999 ppm (NDIR)				
Resolution	-	1 ppm				
Accuracy	-	- ±40 ppm ±3% of measured value				
Response Time	- 120 seconds					
Warm-up Time	- 5 minutes					
Temperature Measurement						
Range	-10 to +50°C					
Resolution	0.1°C					
Accuracy	±0.6°C					
Relative Humic	dity Measurement					
Range	0 to 100% RH					
Resolution	0.1% RH					
Accuracy	±5% RH					
Dew Point						
Range	Calculated using temperature and relative humidity					
Resolution	0.1°C					

Free and Power DL-300 Utility Software

The DL-300 Utility is designed for setup modules, monitor realtime data, group DL-300 and CL-200 modules to view and manage the statuses of distribution groups, download log data and export data into a .CSV file that can be imported into any industry-standard software or spreadsheet for analysis.



Pin Assignments & Wire Connections

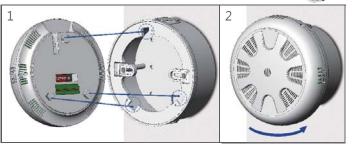


Mounting ____

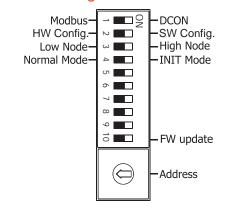
Ceiling Mounting



Wall Mounting (+External Wall Box EWB-C150)



DIP Switch Settings_



Dimensions (Units: mm) _ 150 53 -83.7 -60.8-Top View 1.11 E E 100000 Left View Front View **Right View** Rear View Bottom View

Ordering Information __

CL-211 CR	Remote PM2.5/CO/Temperature/Humidity/Dew Point Data Logger Module (RoHS)
CL-212 CR	Remote PM2.5/CO2/Temperature/Humidity/Dew Point Data Logger Module (RoHS)
CL-213 CR	Remote PM2.5/CO/CO2/Temperature/Humidity/Dew Point Data Logger Module (RoHS)

Accessories

	EWB-C150	External Wall Box for CL-200 series
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