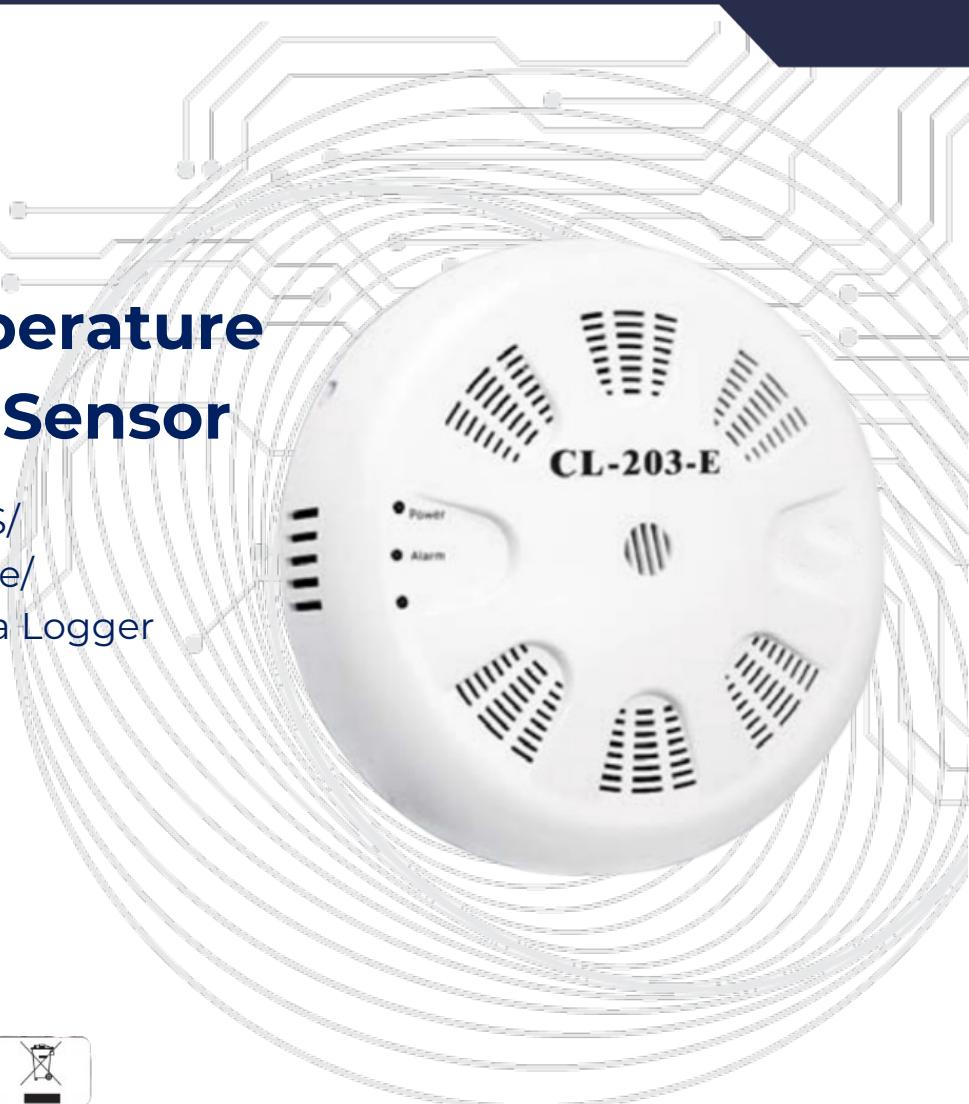


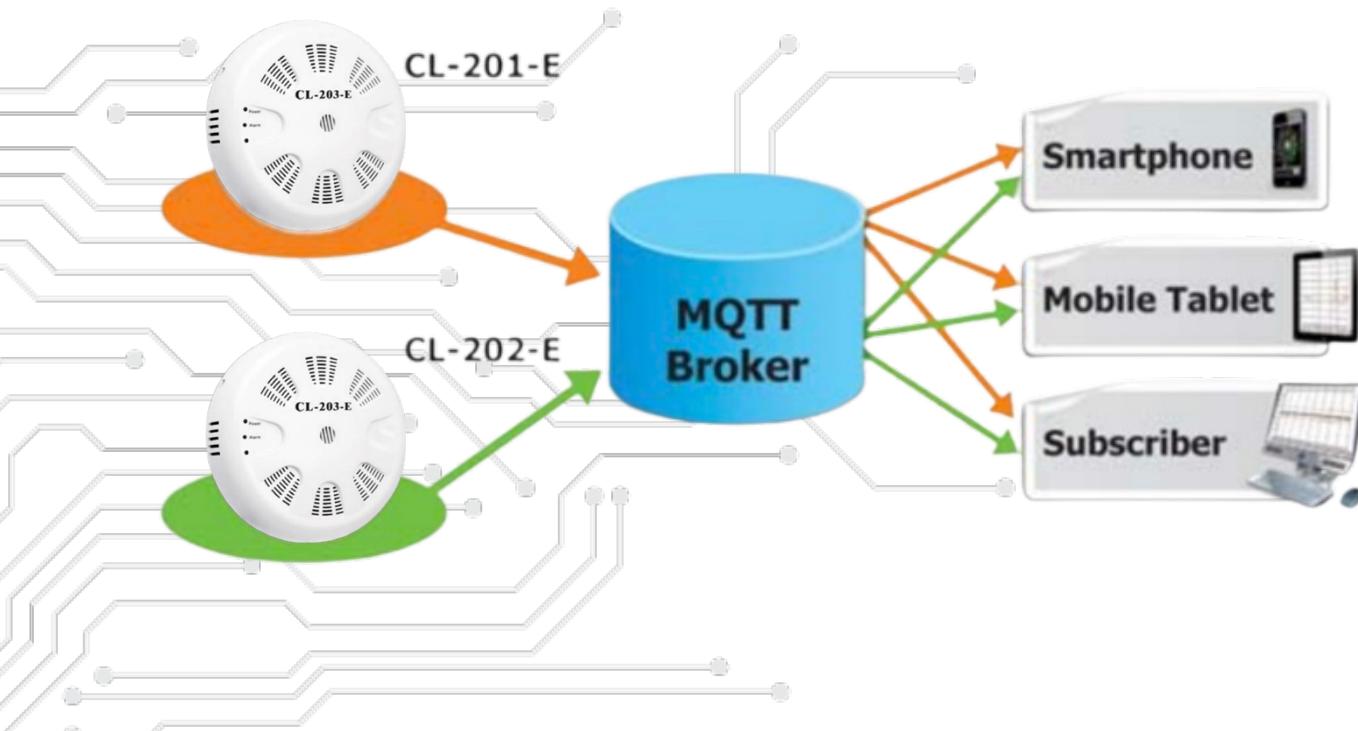
# Outdoor Temperature and Humidity Sensor

Remote CO/CO<sub>2</sub>/NH<sub>3</sub>/H<sub>2</sub>S/  
HCHO/TVOC/Temperature/  
Humidity/Dew Point Data Logger  
Module

CL-201-E CL-202-E  
CL-203-E CL-204-E  
CL-205-E CL-206-E  
CL-207-E CL-208-E



Supports the MQTT Protocol for IoT Applications



**CUSTOM THE FUTURE**



+66 (0) 2098 6132



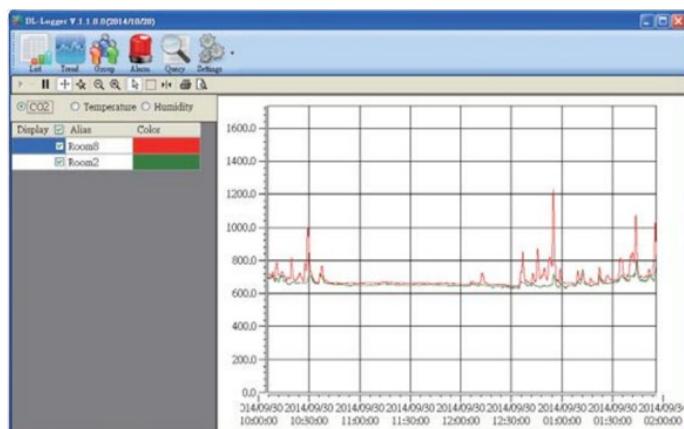
admin@ntpsemi.com



www.ntpsemi.com

## 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.

**CUSTOM THE FUTURE**



+66 (0) 2098 6132



admin@ntpsemi.com



www.ntpsemi.com

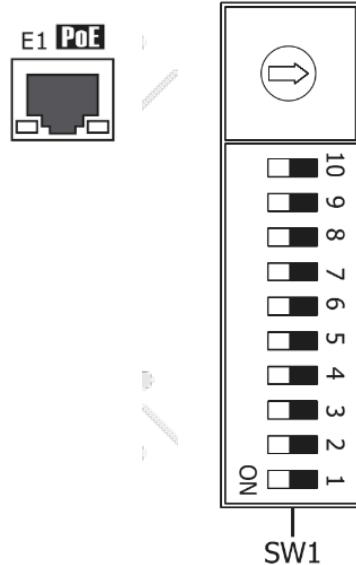
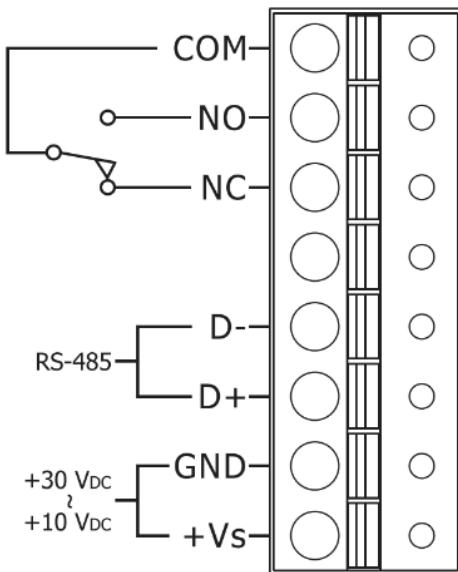


semiconductor

## I/O Specifications

Model	CL-201-E	CL-202-E	CL-203-E	CL-204-E	CL-205-E	CL-206-E	CL-207-E	CL-208-E
<b>System</b>								
CO Alarm	Yes	-	Yes	-	-	-	-	-
CO2 Alarm	-	Yes	Yes	-	-	-	-	-
HCHO Alarm	-	-	-	Yes	-	-	Yes	-
TVOC Alarm	-	-	-	Yes	-	-	-	Yes
NH3 Alarm	-	-	-	-	Yes	-	-	-
H2S Alarm	-	-	-	-	-	Yes	-	-
RH/Temperature Alarm	-	-	-	-	-	Yes	-	-
Real Time Clock	-	-	-	-	-	Yes	-	-
Data Logger	-	-	-	-	Yes, up to 450,000 records	-	-	-
Relay Output	-	-	-	-	-	Form A x1, SPST 30 VDC @ 16 A or 250 VAC @ 16 A	-	-
Interface	-	-	-	-	-	-	RS-485/Ethernet	-
<b>Electrical</b>								
Powered from Terminal Block	-	-	-	-	-	+12 to +48 VDC	-	-
Power	Non-PoE	1.5 W (Max.)	1.5 W (Max.)	1.6 W (Max.)	1.9 W (Max.)	1.6 W (Max.)	1.6 W (Max.)	1.9 W (Max.)
Consumption	PoE	1.6 W (Max.)	1.6 W (Max.)	1.7 W (Max.)	2.0 W (Max.)	1.7 W (Max.)	1.7 W (Max.)	2.0 W (Max.)
<b>Mechanical</b>								
Installation	-	-	-	-	-	Ceiling Mounting/Wall Mounting	-	-
Protection Class	-	-	-	-	-	IP20	-	-
Dimensions (D x H)	-	-	-	-	-	Ø 150 mm x 53 mm	-	-
<b>Environment</b>								
Operating Temperature	-	-	-	-	-	0 to +50°C	-	-
Storage Temperature	-	-	-	-	-	-30 to +75°C	-	-
Humidity	-	-	-	-	-	10 to 90% RH, Non-condensing	-	-

## Pin Assignments & Wire Connections



SW1-	ON	OFF
1	DCON	Modbus
2	SW Config	HW Config
3	High Node	Low Node
4	INIT	RUN
5~9	Reserved	
10	FW update	Null

**CUSTOM THE FUTURE**



+66 (0) 2098 6132



admin@ntpsemi.com

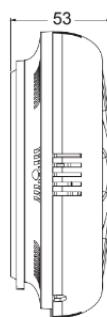


www.ntpsemi.com

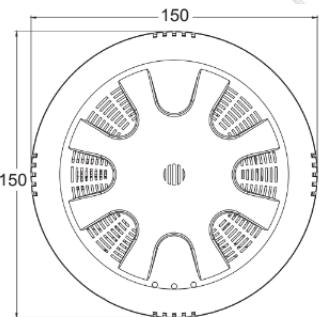


semiconductor

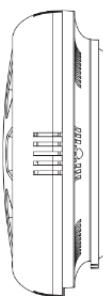
Dimensions (Units: mm)



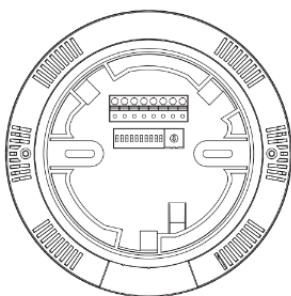
Left View



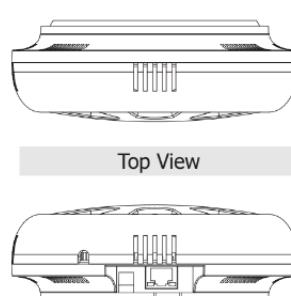
Front View



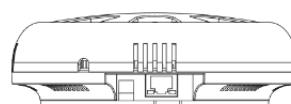
Right View



Rear View



Top View



Bottom View

CUSTOM THE FUTURE



+66 (0) 2098 6132

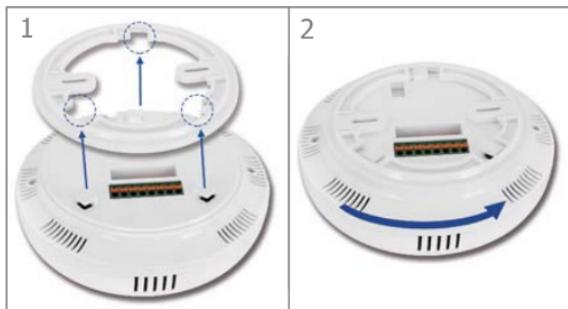


admin@ntpsemi.com

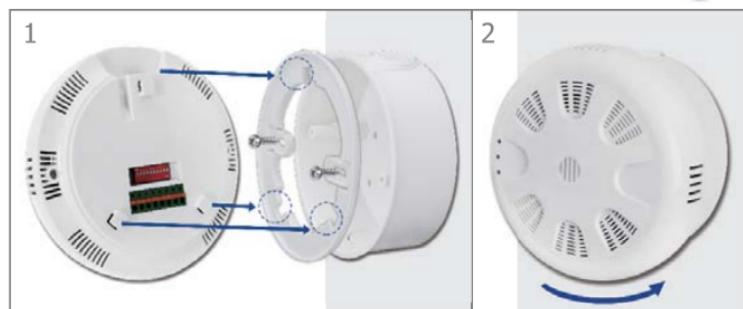


www.ntpsemi.com

## Installation



**Mounting**



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



**CA-RJ45-04**  
(30 cm)



**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.

## 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

**CUSTOM THE FUTURE**



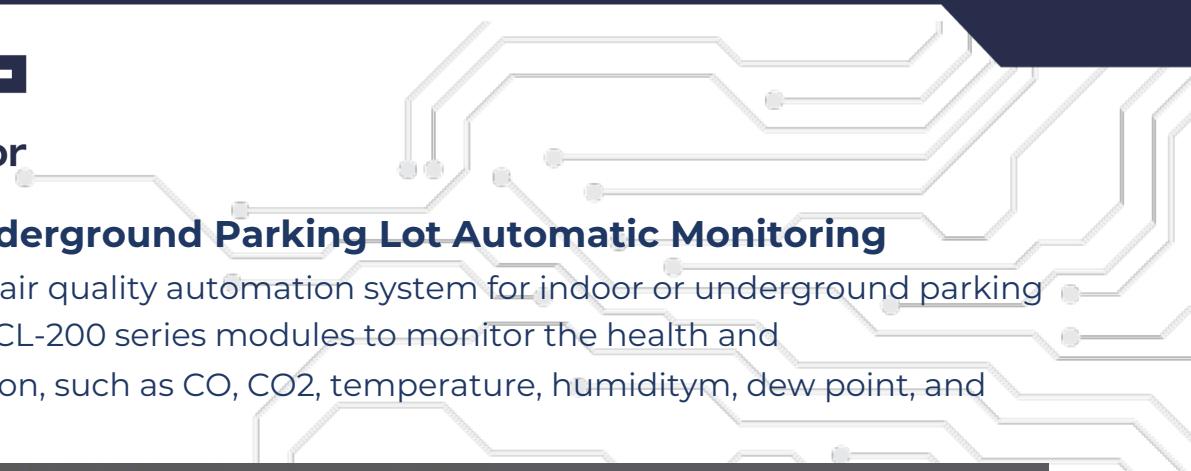
+66 (0) 2098 6132



admin@ntpsemi.com

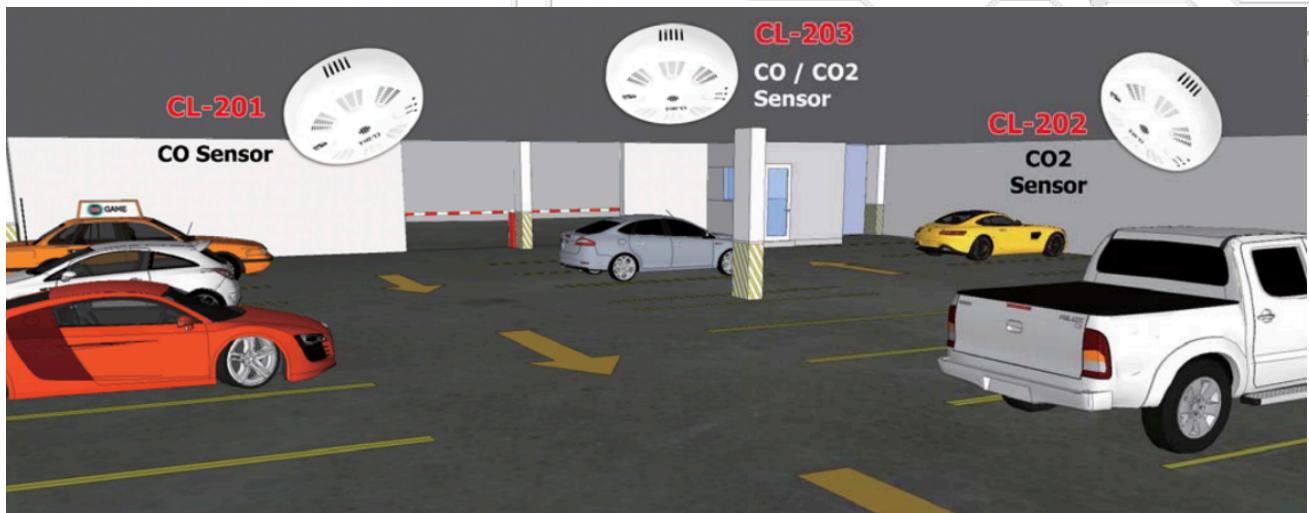


www.ntpsemi.com



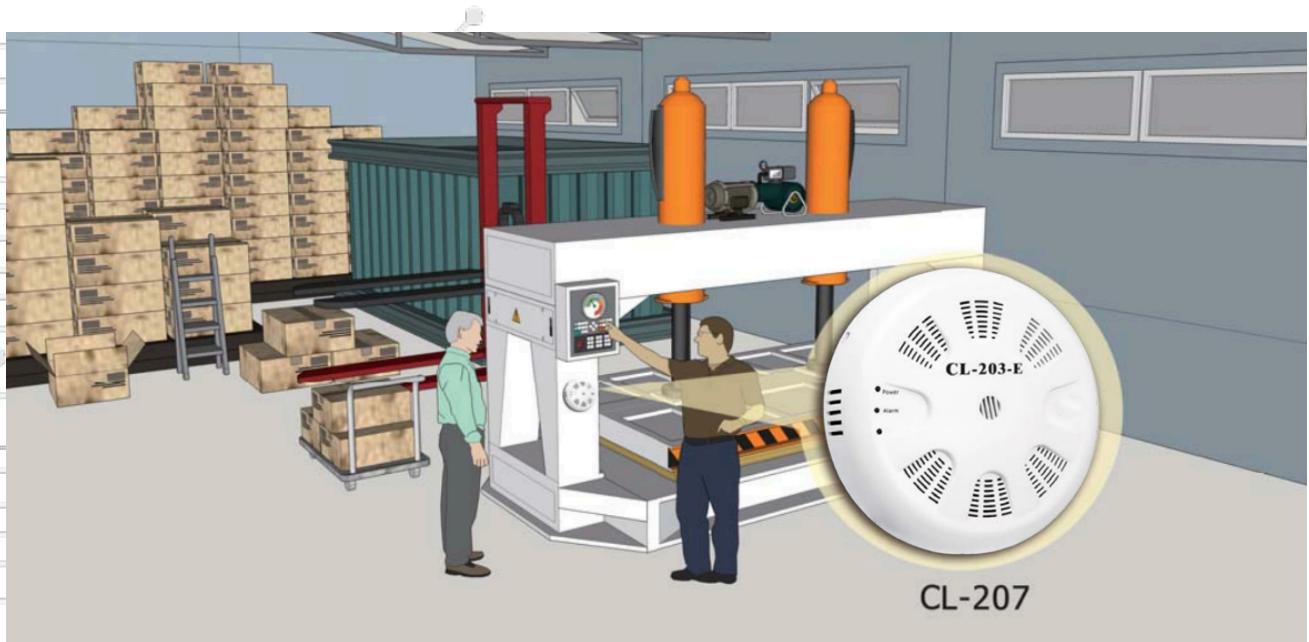
## Indoor or Underground Parking Lot Automatic Monitoring

**Solution.** The air quality automation system for indoor or underground parking lot can use the CL-200 series modules to monitor the health and safety information, such as CO, CO2, temperature, humidity, dew point, and more...



## HCHO (Formaldehyde) / VOC Detector Automatic Solution

The HCHO/VOC detector provides an instantaneously warning of toxic formaldehyde, which can be found in a plywood factory, furniture factory and new interior remodelling house commonly.



**CUSTOM THE FUTURE**



+66 (0) 2098 6132



admin@ntpsemi.com

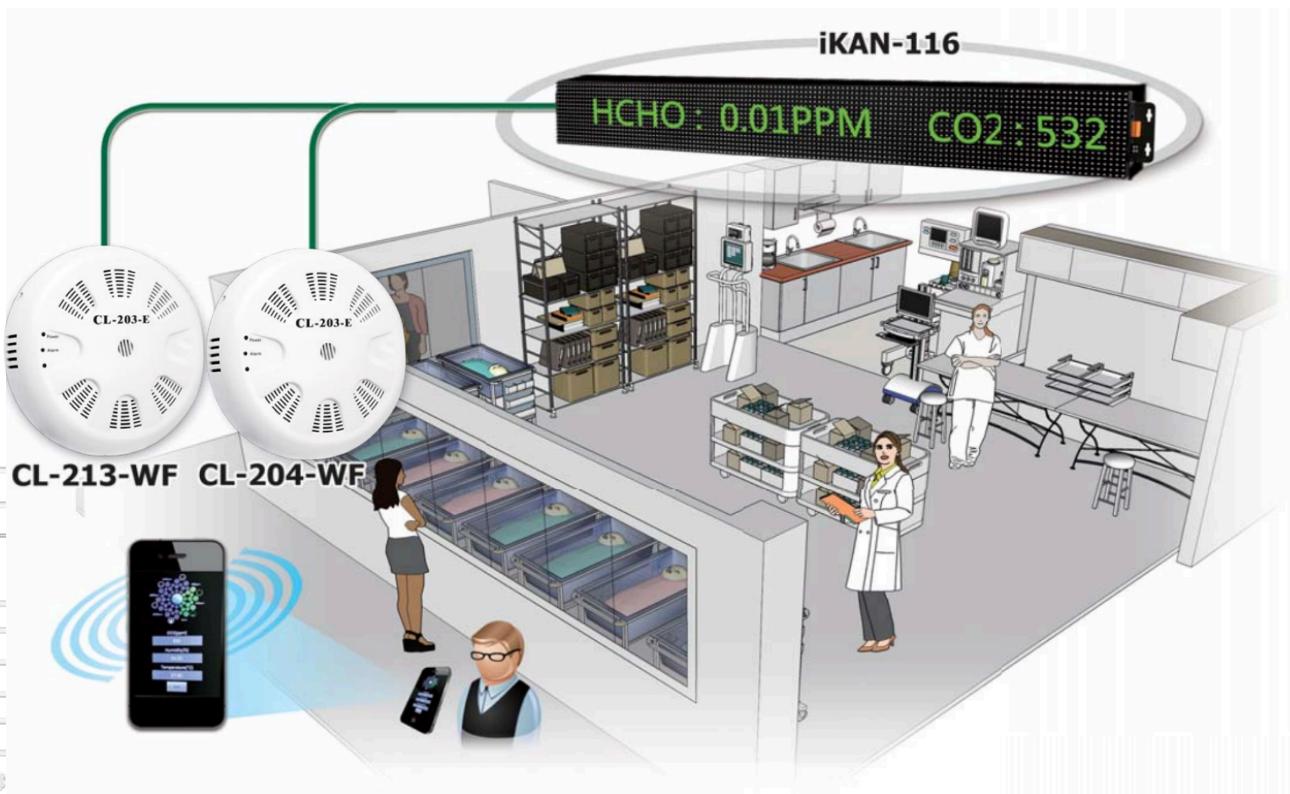


www.ntpsemi.com

## Preschool Air Quality Monitoring

Indoor air quality is a key matter for children in preschool. ICP DAS provide a solution toward this environment include CL-213-E, CL-204-E modules to monitor the fumes and Particle Matters such as PM1, PM2.5, PM10, CO, CO2, HCHO, TVOC, and etc. Combine with ICP DAS iKAN series LED monitors, teachers in the preschool can easily check the real-time Air Quality Index. Furthermore, diversity of SCADA software is also compatible with these monitoring modules and can upload received data into remote database.

Teachers can use their mobile App to remotely check the AQI or other fumes data to make sure that the Air Quality is always in the safety range.



**CUSTOM THE FUTURE**



+66 (0) 2098 6132



admin@ntpsemi.com



www.ntpsemi.com

## Ordering Information

<b>CL-201-E CR</b>	Remote CO/Temperature/Humidity/Dew Point Data Logger with Ethernet/RS-485 Interfaces and PoE (RoHS)
<b>CL-202-E CR</b>	Remote CO <sub>2</sub> /Temperature/Humidity/Dew Point Data Logger with Ethernet/RS-485 Interfaces and PoE (RoHS)
<b>CL-203-E CR</b>	Remote CO/CO <sub>2</sub> /Temperature/Humidity/Dew Point Data Logger with Ethernet/RS-485 Interfaces and PoE (RoHS)
<b>CL-204-E CR</b>	Remote HCHO/TVOC/Temperature/Humidity/Dew Point Data Logger with Ethernet/RS-485 Interfaces and PoE (RoHS)
<b>CL-205-E CR</b>	Remote NH <sub>3</sub> /Temperature/Humidity/Dew Point Data Logger with Ethernet/RS-485 Interfaces and PoE (RoHS)
<b>CL-206-E CR</b>	Remote H <sub>2</sub> S /Temperature/Humidity/Dew Point Data Logger with Ethernet/RS-485 Interfaces and PoE (RoHS)
<b>CL-207-E CR</b>	Remote HCHO/Temperature/Humidity/Dew Point Data Logger with Ethernet/RS-485 Interfaces and PoE (RoHS)
<b>CL-208-E CR</b>	Remote TVOC/Temperature/Humidity/Dew Point Data Logger with Ethernet/RS-485 Interfaces and PoE (RoHS)

## Accessories

<b>EWB-C150</b>	External Wall Box for the CL-200 series
<b>CA-RJ45-04</b>	RJ45 Cable, Male-Female, 30cm (90o)

**CUSTOM THE FUTURE**



+66 (0) 2098 6132



admin@ntpsemi.com



www.ntpsemi.com