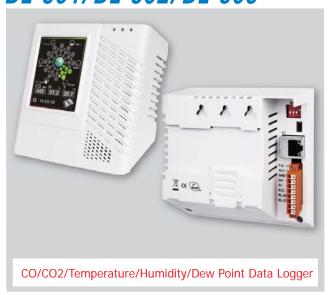
DL-301/DL-302/DL-303





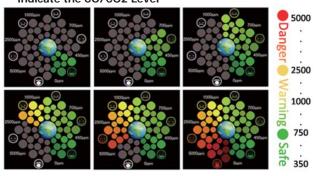
Introduction

The DL-300 series of Data Logger devices can be used to record 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 Data Logger from anywhere and at any time using the free Windows software, the iOS App or the Android App, as long as they are connected to the same local network as the Data Logger.

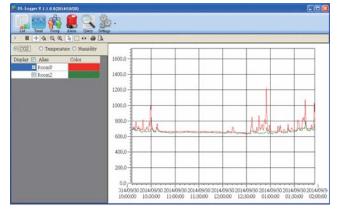
Support is provided for popular industrial protocols such as DCON, Modbus RTU, and Modbus TCP, as well as the emerging machine-to-machine (M2M)/)IoT (Internet of Things) connectivity protocol – MQTT. The DL-300 Data Logger can be connected via widely used communication interfaces including RS-485, Ethernet and PoE, meaning that the device can be easily integrated into existing HMI or SCADA systems, and is easy to be maintained in a distributed control system.

□ Large 2.8" LCD Touch Screen, with clear Color Chart to indicate the CO/CO2 Level

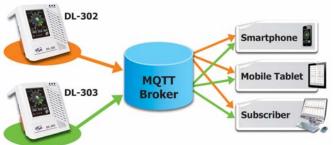


⇒ Free and Power DL300 Utility Software

The DL300 Utility can be used to configure the modules, monitor real-time data, group DL-300 modules so that the status of distribution groups can be viewed and managed. The utility also allows the log data to be downloaded and exported to a .CSV file that can then be imported into any industry-standard software or spread sheet for analysis.



Supports the MQTT Protocol for IoT Applications



Multi-platform Remote Access Software

Real-time data from the DL-300 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.



Display Messages in Multiple Languages

The display-message-on-screen function supports multiple language character sets based on UTF-8 encoding. Either pre-configured messages or dynamic messages can be remotely displayed using Modbus commands, or a dynamic message can be sent via the web-based interface.



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

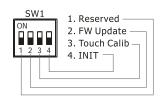


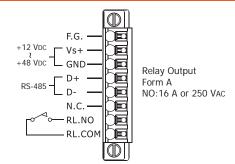
■ Specifications .

Model		DL-301	DL-302	DL-303			
CO Measurement	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			
CO2 Measurement							
Range		- 0 to 9999 ppm (NDIR)					
Resolution		-	1 ppm				
Accuracy		-	±30 ppm ±3% of measured value				
Response Time		-	20 sec				
Warm-up Time		-	- 60 sec				
Temperature Measu	rement						
Range		-10 to +50°C					
Resolution		0.1°C					
Accuracy		±0.6°C					
Relative Humidity N	leasureme	nt					
Range		0 to 100% RH, Non-condensing					
Resolution		0.1% RH, Non-condensing					
Accuracy		±5% RH, Non-condensing					
Dew Point							
Range		Calculated using temperature and relative humidity					
Resolution		0.1°C					
System							
CO Alarm		Yes	-	Yes			
CO2 Alarm		-	Yes	Yes			
Real-time Clock			Yes				
Data Logger		Yes, 450,000 Records					
Relay Output		Form A×1, SPST 30 VDc @ 16 A or 250 VAC @ 16 A					
Interface		RS-485/Ethernet/PoE					
Main Machine Inter	face						
LCD		2.8 TFT (Resolution 240 x 320 x 16), Defective Pixels <= 3					
Backlight Life		20,000 hours					
Brightness		160 cd/m2					
Touch Panel		Yes					
Electrical							
Powered from Termina	Il Block	+12 to +48 VDC					
Powered from PoE		IEEE 802.3af, Class 1 (48 V)					
Power Consumption	PoE Non-PoE	1.84 W (Max.) 1.74 W (Max.)	2.65 W (Max.) 2.14 W (Max.)	2.83 W (Max.) 2.24 W (Max.)			
Mechanical	NOTI-FUE	1.77 W (IVIGA.)	2.17 W (IVIGA.)	2.27 vv (IVIAA.)			
Dimensions (L x W x H)		114 mm x 106 mm x 56 mm					
Installation		Desktop, DIN-Rail or Wall Mounting					
Environment							
Operating Temperature		0 to +50°C					
Storage Temperature		-30 to +75°C					
Humidity		10 to 90% RH, Non-condensing					
Humbury		10 to 40 % Km, Non-condensing					

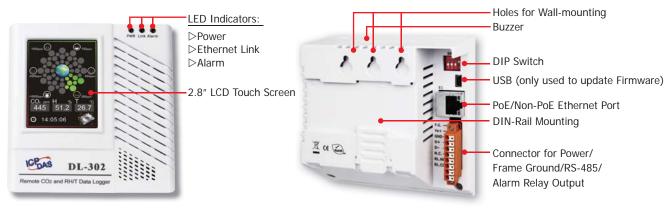


■ Pin Assignments & Wire Connections ______

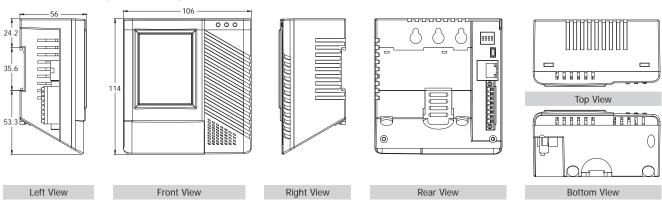




Appearance .



■ Dimensions (Units: mm)



Ordering Information _

DL-301 CR	Remote CO/Temperature/Humidity/Dew Point Data Logger with Safety Alarm (RoHS)***5fh"Bc"*%(*-\$,	
DL-302 CR	DL-302 CR Remote CO2/Temperature/Humidity/Dew Point Data Logger with Safety Alarm (RoHS) "5fh" Bc" % &* +(
DL-303 CR	Remote CO/CO2/Temperature/Humidity/Dew Point Data Logger with Safety Alarm (RoHS)```5fH'Bc"'%(*-\$-	

Accessories ______

		NS-205 CR	Unmanaged 5-port Industrial Ethernet Switch. 24 VDC Input (RoHS)	
	102:42	NS-205PSE CR	Unmanaged Ethernet switch with 4-PoE and 1 RJ45 uplink connectors. 48 Vpc Input (RoHS)	
	w. diway	NS-205PSE-24V CR	Unmanaged Ethernet switch with 4-PoE and 1 RJ45 uplink connectors. 24 Vpc Input (RoHS)	

24V/1A, 24 W Power Supply with DIN- Rail Mounting (RoHS)
48V/1.25A, 60 W Single Output Industrial DIN Rail Power Supply (RoHS)
USB to Isolated RS-485 Converter (RoHS)

