



DL-301/DL-302/DL-303

CO/CO2/Temperature/Humidity/Dew Point Data Logger

■ Features

- Simultaneous Display for CO, CO2, Temperature, Humidity and Dew Point
- Measurement Range
 - □ CO: 0 ~ 1000 ppm
- □ CO2: 0 ~ 9999 ppm
- Non-dispersive Infrared (NDIR) CO2 Sensor
- 2.8" LCD Touch Screen
- Able to store up to 450,000 records with date and time stamps
- Touch-screen and Web-based Configuration Interface
- Free Software Utility, iOS APP and Android App Included
- Able to Display Multilingual Messages on the Screen
- Supports the DCON, Modbus RTU, Modbus TCP and MQTT Protocols
- Includes RS-485/Ethernet/PoE Communication Interfaces
- Relay Output for Audible/Visual Alarm or IAQ Device Control
- Desktop, DIN-Rail or Wall Mounting









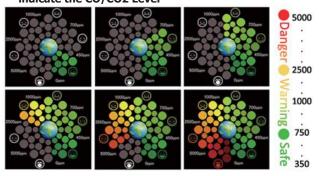
■ Introduction

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.

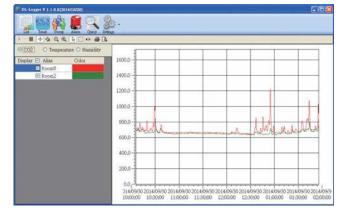
Support is provided for popular industrial protocols such as DCON, Modbus RTU, and Modbus TCP, as well as the emerging machine-to-machine (M2M)/)IoT (Internet of Things) connectivity protocol – MQTT. The DL-300 Data Logger can be connected via widely used communication interfaces including RS-485, Ethernet 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

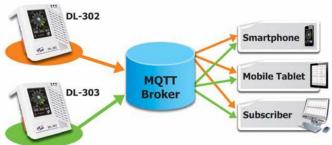


⇒ Free and Power DL300 Utility Software

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.



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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



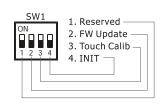
Specifications

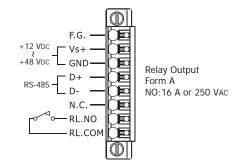
DL-301	DL-302	DL-303			
CO Measurement					
0 to 1000 ppm (Electrochemical)	-	0 to 1000 ppm (Electrochemical)			
1 ppm	-	1 ppm			
±5% of measured value	-	±5% of measured value			
	-	30 seconds			
	-	300 seconds			
-	0 to 9999 p	ppm (NDIR)			
- 1 ppm					
+30 ppm ±3% of measured value					
-					
- 60 sec					
Warm-up Time - 60 sec Temperature Measurement					
	-10 to +50°C				
nent					
	0 to 100% RH, Non-condensing				
	<u> </u>				
Calcı	ulated using temperature and relative hun	nidity			
	0.1°C	•			
Yes	-	Yes			
-	Yes	Yes			
	Yes				
Yes, 450,000 Records					
Form A×1, SPST 30 Vpc @ 16 A or 250 VAC @ 16 A					
RS-485/Ethernet/PoE					
2.8 TFT (Resolution 240 x 320 x 16), Defective Pixels <= 3					
20,000 hours					
160 cd/m2					
Yes					
	+12 to +48 VDC				
	+12 to +48 VDC				
	+12 to +48 VDC IEEE 802.3af, Class 1 (48 V)				
1.84 W (Max.)		2.83 W (Max.)			
1.84 W (Max.) E 1.74 W (Max.)	IEEE 802.3af, Class 1 (48 V)	2.83 W (Max.) 2.24 W (Max.)			
	IEEE 802.3af, Class 1 (48 V) 2.65 W (Max.)	, ,			
	IEEE 802.3af, Class 1 (48 V) 2.65 W (Max.)	, ,			
	IEEE 802.3af, Class 1 (48 V) 2.65 W (Max.) 2.14 W (Max.)	, ,			
	IEEE 802.3af, Class 1 (48 V) 2.65 W (Max.) 2.14 W (Max.)	, ,			
	IEEE 802.3af, Class 1 (48 V) 2.65 W (Max.) 2.14 W (Max.)	, ,			
	IEEE 802.3af, Class 1 (48 V) 2.65 W (Max.) 2.14 W (Max.) 114 mm x 106 mm x 56 mm Desktop, DIN-Rail or Wall Mounting	, ,			
	0 to 1000 ppm (Electrochemical) 1 ppm ±5% of measured value 30 seconds t Calcu	0 to 1000 ppm (Electrochemical)			

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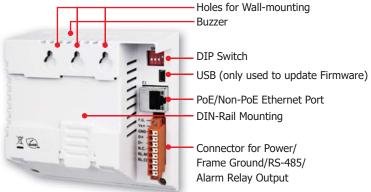
■ Pin Assignments & Wire Connections



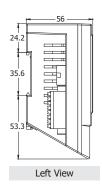


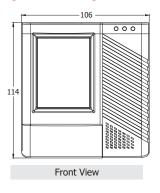
Appearance

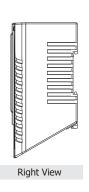


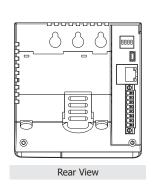


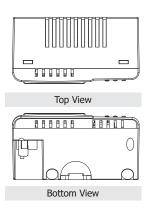
■ Dimensions (Units: mm)











■ Ordering Information

DL-301 CR	1 CR Remote CO/Temperature/Humidity/Dew Point Data Logger with Safety Alarm (RoHS)	
DL-302 CR	Remote CO2/Temperature/Humidity/Dew Point Data Logger with Safety Alarm (RoHS)	
DL-303 CR Remote CO/CO2/Temperature/Humidity/Dew Point Data Logger with Safety Alarm (RoHS)		

Accessories

- ALBERTA	NS-205 CR	Unmanaged 5-port Industrial Ethernet Switch. 24 VDC Input (RoHS)
TELESTI .	NS-205PSE CR	Unmanaged Ethernet switch with 4-PoE and 1 RJ45 uplink connectors. 48 VDC Input (RoHS)
distance	NS-205PSE-24V CR	Unmanaged Ethernet switch with 4-PoE and 1 RJ45 uplink connectors. 24 VDC Input (RoHS)

MDR-20-24 CR	24V/1A, 24 W Power Supply with DIN- Rail Mounting (RoHS)
MDR-60-48 CR	48V/1.25A, 60 W Single Output Industrial DIN Rail Power Supply (RoHS)
tM-7561 CR	USB to Isolated RS-485 Converter (RoHS)

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