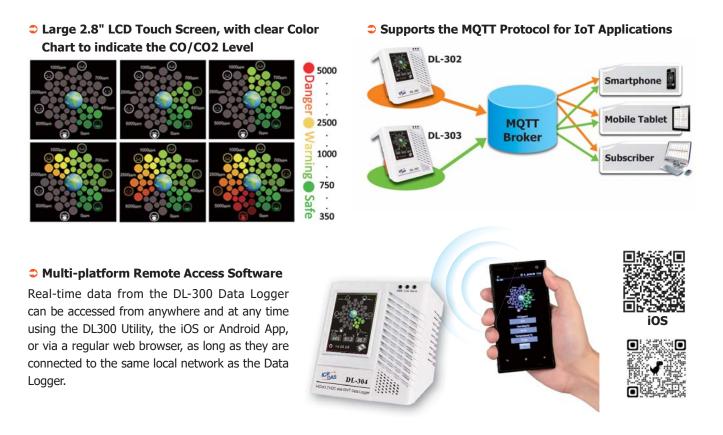


Introduction

The DL-300 series of Data Logger devices can be used to record CO, CO2, HCHO, TVOC, NH3, H2S, 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.



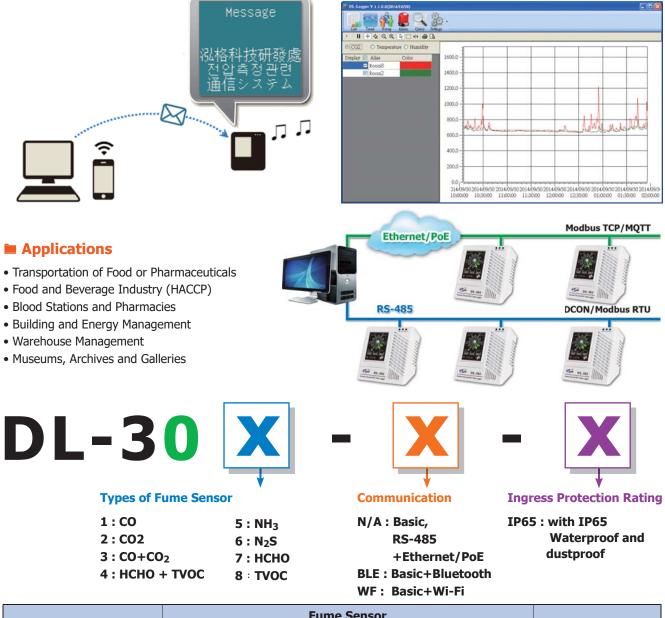
ICP DAS CO., LTD

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.

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.



DL-10xx Series		Fume Sensor								
		Gas Sensor							Communication	
Basic Type	Wi-Fi	CO	CO ₂	НСНО	NH ₃	H ₂ S	TVOC	T & RH		
DL-301	DL-301-WF	\checkmark	-	-	-	-	-		Basic type:	
DL-302	DL-302-WF	-	\checkmark	-	-	-	-			
DL-303	DL-303-WF	\checkmark	\checkmark	-	-	-	-		RS-485	
DL-304	DL-304-WF	-	-	\checkmark	-	-	\checkmark		+ Ethernet/PoE	
DL-305	DL-305-WF	-	-	-	\checkmark	-	-	V	WF type: Wi-Fi	
DL-306	DL-306-WF	-	-	-	-	\checkmark	-		+ RS-485	
DL-307	DL-307-WF	-	-	\checkmark	-	-	-		+ Ethernet/PoE	
DL-308	DL-308-WF	-	-	-	-	-	\checkmark			

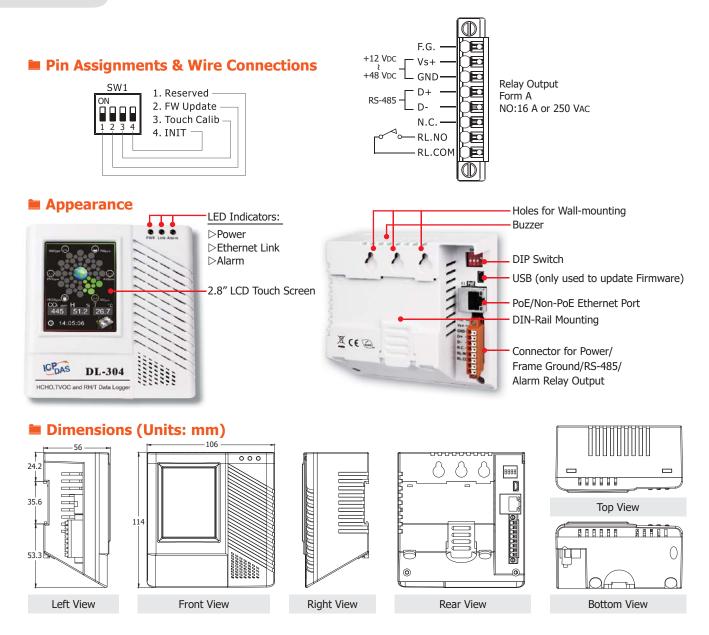


System Specifications

Software				
Built-in Web Server	Yes			
CPU Module				
Real Time Clock	Yes			
Display				
Backlight Life	20,000 hours			
Brightness	160 cd/m2			
Touch Panel	Yes			
LCD Information Displayed	2.8 TFT (Resolution 240 x 320 x 16), Defective Pixels <= 3			
System				
Real Time Clock	Yes			
Data Logger	Yes, up to 450,000 records			
Relay Output				
Туре	Form A × 1, SPST			
Contact Rating	30 VDC @ 16 A or 250 VAC @ 16 A			
COM Ports				
Ports	1 x RS-485			
Baud Rate	1200 ~ 115200 bps			
Protocol	DCON, Modbus/RTU			
Ethernet				
Ports	1x 10/100 Base-TX (Auto-negotiating, Auto-MDI/MDIX, LED indicators)			
PoE	Yes			
Protocol	Modbus/TCP, MQTT			
Power				
Consumption	PoE:2.83W(Max.) Non-PoE:2.24W(Max.)			
Powered from PoE	IEEE 802.3af, Class 1 (48 V)			
Powered from Terminal Block	+12 ~+48 VDC			
Dimensions (mm)				
Dimensions (L x W x H)	114106 x 114 x 56 (W x L x H)			
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			

I/O Specifications

Type of Sensor	Range / Sensor Type	Resolution	Accuracy	Response Time	Warm-up Time	Life Time
со	0 to 1000 ppm (Electrochemical)	1 ppm	±5% of measured value	30 seconds	60 seconds	5 years
CO2	0 ~ 9999 ppm (NDIR)	1 ppm	±30 ppm ±3% of measured value	120 seconds	300 seconds	15 years
нсно	0 ppb to 2000 ppb (Electrochemical)	1 ppb	0 ~ 300ppb : ±30ppb > 300ppb : ±10%	≤60 seconds	180 seconds	3 years
туос	0 ppb to 60000 ppb (MEMS Metal Oxide)	1 ppb	±15%	60 seconds	180 seconds	5 years
NH ₃	0 to 100 ppm (Electrochemical)	1 ppm	±5% of measured value	< 40 seconds	60 seconds	2 years
H ₂ S	0 to 100 ppm (Electrochemical)	1 ppm	±5% of measured value	< 30 seconds	60 seconds	2 years
02	0 ~ 25% (Luminescence for O2 sensor)	0.01%	±2%	< 30 seconds (typical)	120 seconds	5 years
Temperature	-20 to +50°C	0.1°C	±0.6°C	-	-	10 years
Relative	0 to 100% RH, 0.1% RH,		±5% RH,	_		10 years
Humidity	Non-condensing	Non-condensing	Non-condensing	-	-	TO years
Dew Point	Calculated using temperature and relative humidity	0.1°C	-	-	-	10 years



Ordering Information

DL-301 CR	Remote CO/Temperature/Humidity/Dew Point Data Logger with Safety Alarm (RS-485, Ethernet, PoE) (RoHS)
DL-302 CR	Remote CO2/Temperature/Humidity/Dew Point Data Logger with Safety Alarm (RS-485, Ethernet, PoE) (RoHS)
DL-303 CR	Remote CO/CO2/Temperature/Humidity/Dew Point Data Logger with Safety Alarm (RS-485, Ethernet, PoE) (RoHS)
DL-304 CR	Remote HCHO/TVOC/Temperature/Humidity/Dew Point Data Logger with Safety Alarm (RS-485, Ethernet, PoE) (RoHS)
DL-305 CR	Remote NH3/Temperature/Humidity/Dew Point Data Logger with Safety Alarm (RS-485, Ethernet, PoE) (RoHS)
DL-306 CR	Remote H2S/Temperature/Humidity/Dew Point Data Logger with Safety Alarm (RS-485, Ethernet, PoE) (RoHS)
DL-307 CR	Remote HCHO/Temperature/Humidity/Dew Point Data Logger with Safety Alarm (RS-485, Ethernet, PoE) (RoHS)
DL-308 CR	Remote TVOC/Temperature/Humidity/Dew Point Data Logger with Safety Alarm (RS-485, Ethernet, PoE) (RoHS)

Accessories

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

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