

DL-302



CO2/Temperature/Humidity/Dew Point Data Logger

Features

- Simultaneous Display for CO2, Temperature, Humidity and Dew Point
- NDIR Technology improves CO2 Measurement Accuracy and Stability
- CO2 Measurement Range: 0 to 9999 ppm
- 2.8" LCD Touch Screen
- RTC (Real Time Clock)
- Data Logger can store up to 450,000 CO2, Temperature, Humidity and Dew Point Records
- RS-485/Ethernet/PoE Communication Interface
- DCON, Modbus RTU, Modbus TCP Protocols
- Relay Output for CO2 Alarm Output
- Desktop, DIN-Rail or Wall Mounting
- Windows Software Included
- Built-in Web Server



Introduction

The DL-302 is a data logger module designed to accurately measure CO2, temperature and humidity. It contains RS-485, Ethernet and PoE communication interfaces together with a 2.8" LCD Touch Screen display that can be used to display a variety of CO2, temperature, humidity and dew point data. The data storage memory can store up to 450,000 CO2, temperature, humidity and dew point records. The Data Logger Utility is included to allow retrieval and display of data in a powerful chart format that can be exported to Excel.

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-302
Types	CO2, Temperature, Relative Humidity, Dew Point
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 Measurement	
Range	-10 to +50°C
Resolution	0.1°C
Accuracy	±0.6°C
Relative Humidity 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
System	
CO2 Alarm	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 Interface	
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 Terminal Block or PoE	+12 to +48 Vdc or IEEE 802.3af, Class 1 (48 V)
Power Consumption	1.2 W
Mechanical	
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

Ordering Information

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