



**DL-100T485
DL-100TM485
DL-100T485P
DL-100TM485P**

**DL-100T485-W
DL-100TM485-W
DL-100T485P-W
DL-100TM485P-W**

IP66 Remote Temperature and Humidity Data Logger with LCD Display

Features

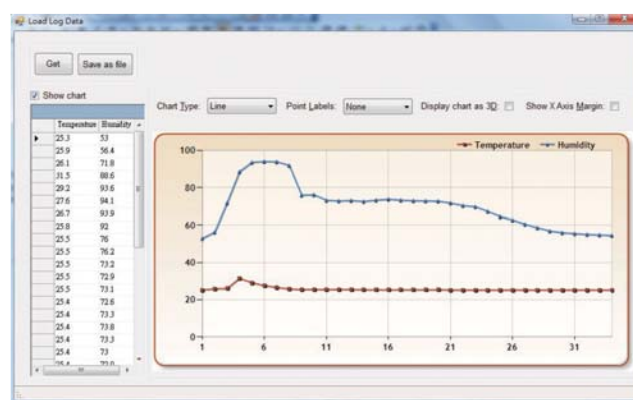
- Measurement Ranges: $-20 \sim +60^{\circ}\text{C}$ and $0 \sim 100\% \text{ RH}$
- Accuracy:
 - $\pm 0.4^{\circ}\text{C}$; $\pm 3.0\% \text{ RH}$ for non-P version
 - $\pm 0.3^{\circ}\text{C}$; $\pm 1.8\% \text{ RH}$ for P version
- LCD Display Shows Temperature, Humidity, Dew Point and Module ID
- $10 \sim 30 \text{ VDC}$ Power Input
- IP66 Waterproof
- Data Logger Can Store Up to 4088 Temperature and Humidity Records
- RS-485 Communication interface
- DCON or Modbus RTU Protocol



Introduction

The DL-100T485/DL-100T485P/DL-100T485-W/DL-100T485P-W/DL-100TM485/DL-100TM485P/DL-100TM485-W/DL-100TM485P-W is a temperature and humidity data logger module. It contains an RS-485 communication interface and an LCD display to show a variety of temperature, humidity, dew point and module ID data. The data storage memory can store up to 4088 temperature and humidity records.

The DL Utility is included to allow installation, configuration, retrieval and display of data in a powerful chart format that can be exported to Excel.



Applications

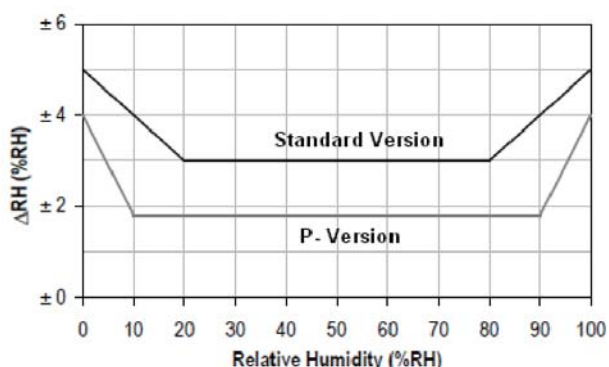
- Transportation of food or pharmaceuticals
- Food and beverage industry (HACCP)
- Blood stations, pharmacies
- Building and energy management
- Warehouses
- Museums, archives, galleries

Greenhouse Automation

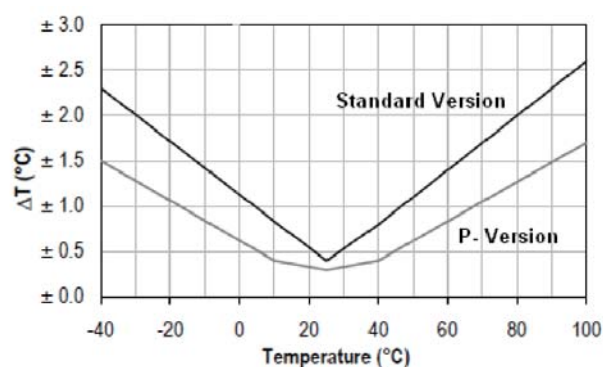


Specifications

Models	DL-100T485 DL-100T485-W	DL-100TM485 DL-100TM485-W	DL-100T485P DL-100T485P-W	DL-100TM485P DL-100TM485P-W
Temperature Sensor				
Measuring Range	-20 ~ +60°C (-4 ~ +140°F)			
Resolution	0.1°C			
Accuracy	Typical: ±0.4°C; refer to figure 2		Typical: ±0.3°C; refer to figure 2	
Precision	±0.1°C			
Humidity Sensor				
Measuring Range	0 ~ 100% RH			
Resolution	0.1% RH			
Accuracy	Typical: ±3% RH @ 20 ~ 80% RH		Typical: ±1.8% RH @ 10 ~ 90% RH	
Precision	±0.1% RH			
Dew Point				
Range	Calculated using temperature and relative humidity			
Resolution	0.1°C			
LCD Display				
Displayed Information	Temperature (°C and °F), Humidity (RH), Module ID			
Data Logger				
Time Interval	10 seconds to 1 day			
Max. Records	4088 temperature and humidity records			
Mode	Overwrite or stop logging when storage space is full			
Overwrite Limitation	1,000,000 cycles			
Communication				
Interface	RS-485; non-isolated			
Baudrate	1200 ~ 115200 bps			
Data format	N,8,1			
Protocol	DCON	Modbus RTU	DCON	Modbus RTU
Max. Modules on same bus	32			
Power				
Input Range	+10 ~ 30 VDC			
Power Consumption	0.15 W			
Mechanical				
Dimensions (W x L x H)	82 mm x 126 mm x 55 mm			
Cable Length	380 mm			
Waterproof Level	IP66			
Installation	DIN-Rail; Wall mount			
Environment				
Operating Temperature	-20 ~ +60°C			
Storage Temperature	-30 ~ +80°C			
Ambient Relative Humidity	5 ~ 95% RH, Non-condensing			



Maximum RH-tolerance at 25°C per sensor.



Maximum T-tolerance per sensor.

Installation



DIN-Rail Mounting



Wall mount

Appearance



Humidity (RH)



Module ID



Temperature (°F)



Temperature (°C)

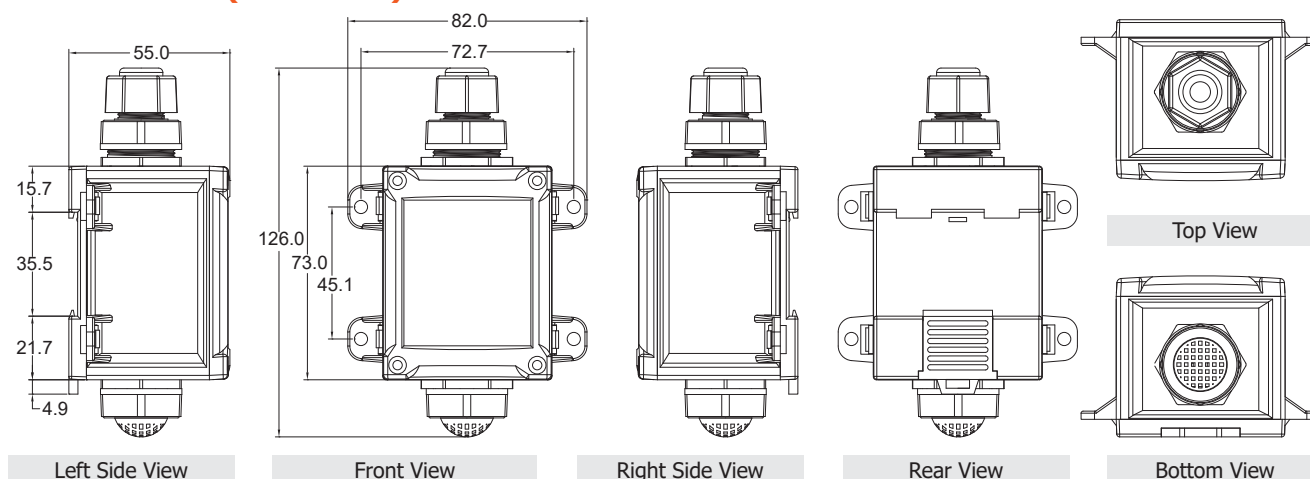


Dew Point (°F)



Dew Point (°C)

■ Dimensions (Units: mm)



■ Ordering Information

DL-100T485 CR	IP66 Remote Temperature and Humidity Data Logger with LCD Display, Using DCON Protocol (Black Cover) (RoHS)
DL-100TM485 CR	IP66 Remote Temperature and Humidity Data Logger with LCD Display, Using Modbus RTU Protocol (Black Cover) (RoHS)
DL-100T485-W CR	IP66 Remote Temperature and Humidity Data Logger with LCD Display, Using DCON Protocol (White Cover) (RoHS)
DL-100TM485-W CR	DIP66 Remote Temperature and Humidity Data Logger with LCD Display, Using Modbus RTU Protocol (White Cover) (RoHS)
DL-100T485P CR	IP66 Remote Temperature and Humidity Data Logger with High Accuracy and LCD Display, Using DCON Protocol (Black Cover) (RoHS)
DL-100TM485P CR	IP66 Remote Temperature and Humidity Data Logger with High Accuracy and LCD Display, Using Modbus RTU Protocol (Black Cover) (RoHS)
DL-100T485P-W CR	DIP66 Remote Temperature and Humidity Data Logger with High Accuracy and LCD Display, Using DCON Protocol (White Cover) (RoHS)
DL-100TM485P-W CR	IP66 Remote Temperature and Humidity Data Logger with High Accuracy and LCD Display, Using Modbus RTU Protocol (White Cover) (RoHS)

■ Optional Accessories

tM-7561 CR 	Isolated USB to RS-485 Converter (RoHS)
tM-7520U CR 	Isolated RS-232 to RS-485 Converter (RoHS)