

9.1 IP66 Remote Temperature and Humidity Data Logger with LCD Display

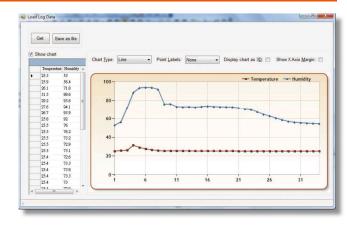


ID			
Data Logger Can Store Up to 4088 Temperature and Humidity Records			
RS-485 Communication interface			
■ DCON or Modbus RTU Protocol			

■ 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 and module ID data. The data storage memory can store up to 4088 temperature and humidity records.

The Data Logger 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



■ Specifications -

Models	DL-10	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	10 ~ 95% RH	0 ~ 100% RH				
Resolution	0.1% RH					
Accuracy	Typical: ±3%	RH @ 20 \sim 80% RH; refer to figure 1 Typical: $\pm 1.8\%$ RH @ 10 \sim 90% RH; refer to figure 1				
Precision	+/- 0.1% RH					
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	Modbus RTU	DCON	Modbus RTU	DCON	Modbus RTU	
Max. Modules on same bus	32					
Power						
Input Range	+10 ~ 30 VDC					
Power Consumption	0.05 W 0.15 W					
Mechanical						
Dimensions (W x L x H)	25 mm X 20.2 mm X 30 mm	82 mm x 126 mm x 55 mm				
Waterproof Level	-	IP66				
Installation	Magnetic mount; Wall mount	DIN-Rail; Wall mount				
Environment						
Operating Temperature	-20 ~ +60°C					
Storage Temperature	-30 ∼ +80°C					
Ambient Relative Humidity	5 ~ 95% RH, Non-condensing					

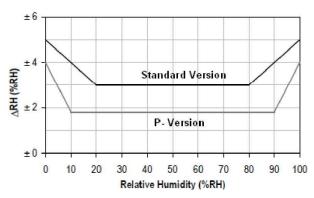


Figure 1: Maximum RH-tolerance at 25°C per sensor.

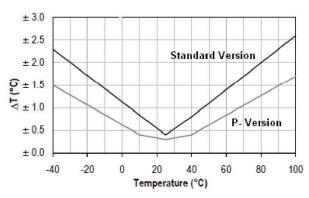


Figure 2: Maximum T-tolerance per sensor.





Installation



DIN-Rail Mounting



Wall mount

Appearance _











Temperature (°F)

Rear View

Temperature (°C)

Front View

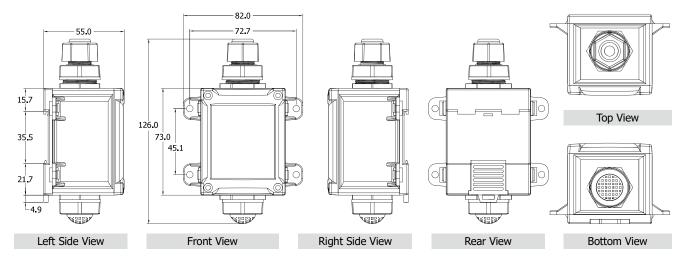




Magnetic mount



■ Dimensions (Units: mm) _



Ordering Information .

DL-10 CR	RS-485 Remote Temperature and Humidity (RoHS)		
DL-100T485 CR	DCON Protocol Based IP66 RS-485 Remote Temperature and Humidity Data Logger with LCD Display (Black Cover) (RoHS)		
DL-100TM485 CR	Modbus RTU Protocol Based IP66 RS-485 Remote Temperature and Humidity Data Logger with LCD Display (Black Cover) (RoHS		
DL-100T485-W CR	DL-100T485 (White Cover) (RoHS)		
DL-100TM485-W CR	DL-100TM485 (White Cover) (RoHS)		
DL-100T485P CR	DL-100T485 (High Accuracy) (Black Cover) (RoHS)		
DL-100TM485P CR	DL-100TM485 (High Accuracy) (Black Cover) (RoHS)		
DL-100T485P-W CR	DL-100T485 (High Accuracy) (White Cover) (RoHS)		
DL-100TM485P-W CR	DL-100TM485 (High Accuracy) (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)	
MDR-20-24 CR	24V/1A, 24 W Power Supply with DIN-Rail Mounting (RoHS)	