



DL-11

Remote Temperature/Humidity/Dew Point Sensing Module

Features

- Measurement Ranges: -20 ~ +60 °C and 0 ~ 100% RH
- Accuracy: ±0.4 °C; ±3.0% RH
- 10 ~ 30 VDC Power Input
- RS-485 Communication interface
- Modbus RTU Protocol



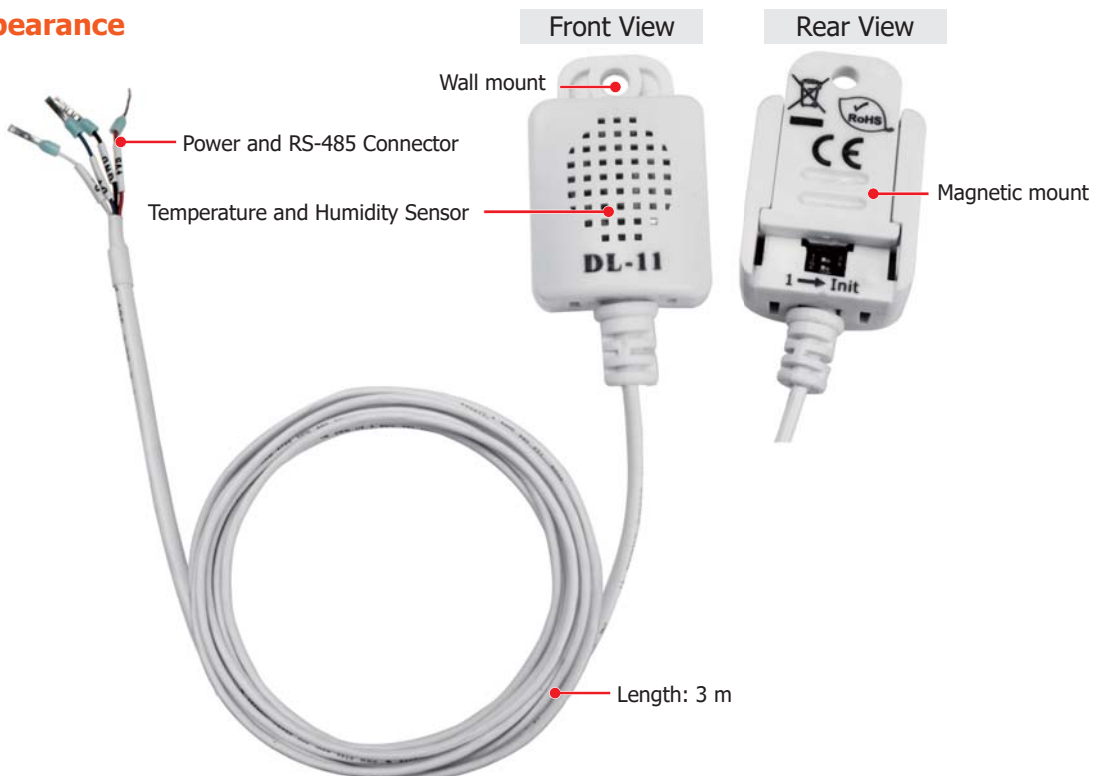
Introduction

The DL-11 is a RS-485 remote temperature, humidity and dew point module that gives you real time temperature, humidity and dew point information at the same time. It contains an RS-485 communication interface and an sensor for measuring temperature, humidity and dew point. The DL-11 module supports Modbus RTU communication protocol for getting measured temperature, humidity and dew point values. DCON Utility Pro provides easy and convenient interfaces for users to configure the module. Based on an amazing tiny form-factor, the DL-11 achieves the maximum space savings that allows it to be easily installed anywhere.

Applications

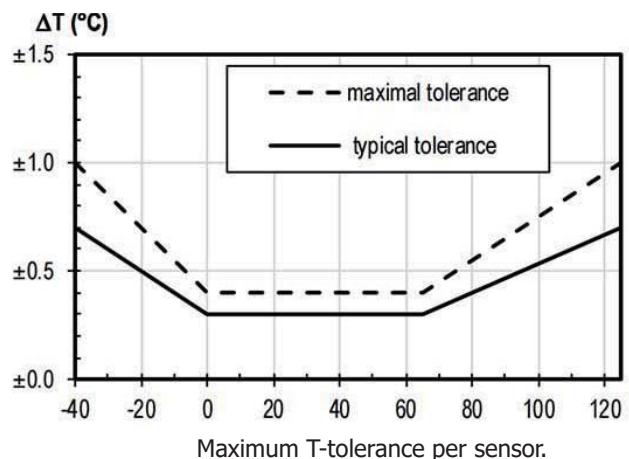
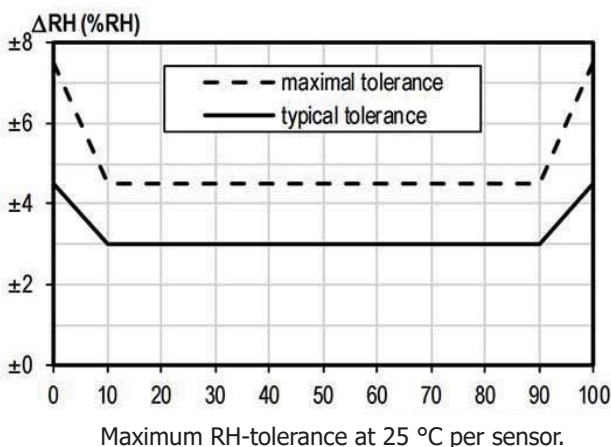
- Transportation of food or pharmaceuticals
- Food and beverage industry (HACCP)
- Blood stations, pharmacies
- Building and energy management
- Warehouses
- Museums, archives, galleries

Appearance

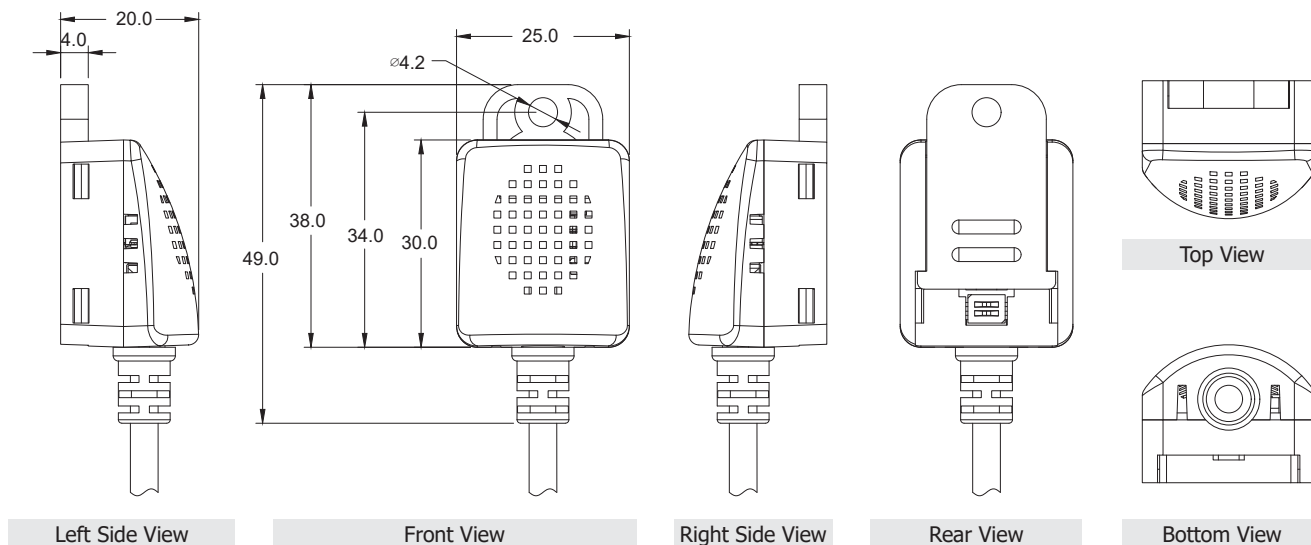


Specifications

Models	DL-11
Temperature Measurement	
Range	-20 ~ +60°C (-4 ~ +140°F)
Resolution	0.1 °C
Accuracy	Typical: ±0.4°C
Precision	±0.1° C
Humidity Measurement	
Range	10 ~ 95% RH
Resolution	0.1°C
Accuracy	Typical: ±3% RH @ 20 ~ 80% RH
Precision	±0.1% RH
Dew Point	
Range	Calculated using temperature and relative humidity
Resolution	0.1°C
Atmospheric Pressure	
Range	300 ~ 1200 hPa
Accuracy	1 hPa
Resolution	0.1 hPa
COM Ports	
Ports	1 x RS-485, Non-isolated
Baud Rate	1200 ~ 115200 bps
Data Format	(N, 8, 1)
Protocol	Modbus RTU
Power	
Input Range	+10 ~ 30 VDC
Consumption	0.05 W
Mechanical	
Dimensions (mm)	25 x 20.2 x 30 (W x L x H)
Cable Length	3 m
Installation	Magnetic mount; Wall mount
Environment	
Operating Temperature	-20 ~ +60°C
Storage Temperature	-30 ~ +80°C
Humidity	10 ~ 95% RH, Non-condensing





■ Dimensions (Units: mm)



■ Ordering Information

DL-11 CR	Remote Temperature/Humidity/Dew Point Sensing Module, Using Modbus RTU Protocol, 3 M (White Cover) (RoHS)
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■ Optional Accessories

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