MarMonix®

DUAL LASER INFRAREDTHERMOMETER

Products Code: MIT-364

User's Guide

1. Description

DT-8663 can measure the environment temperature, humidity and dew point temperature by one infrared sensor and another humidity sensor can be used in the place of wall, carpet, warehouse and so on for finding the place of mildew, high or low temperature.

- Red, green and blue LED, changing indicative automatically according to the measuring result.
- Dual laser targeting

2. Safety introduction

- Do not close to flammable goods
- Do not clean instrument with corrosive liquid
- Use property battery (9V)

3. Operating instruction
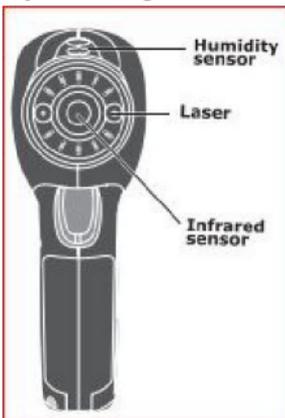
4. Button instruction

1- switch button (automatically switch off at about 15 minutes)

2- Backlight/laser button
3- MODE button
4- C/F button / BZ on/off key
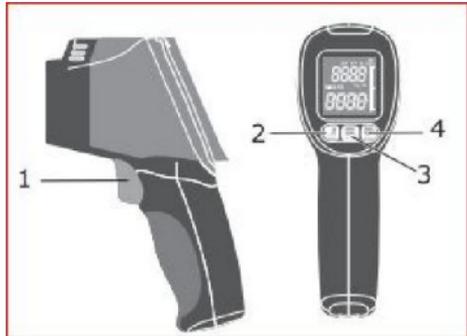
LCD interface instruction

After switch on, instrument will detect environment temperature, humidity and dew point temperature, and display on the upper right of LCD, press MODE button and switch over the display of environment temperature, humidity and dew point temperature.
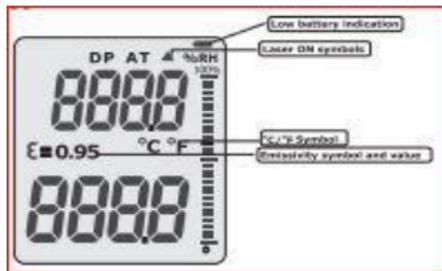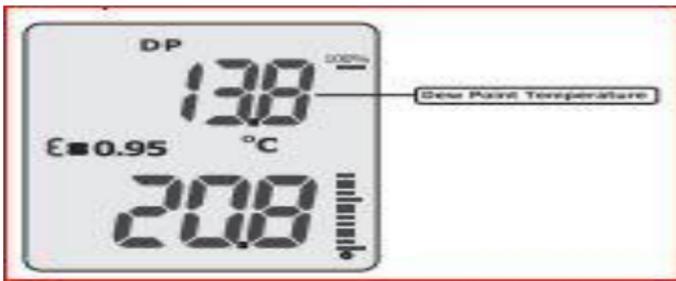
Let the instrument aim at the object which will be measured, move the detector slowly, and get the temperature of the object, if the measured temperature is the one between environment temperature and dew point temperature, LCD will simulated indicate the D-value with environment temperature.

The instrument can detect the mildew, if the measured temperature is within the 1/3 range of environment temperature to dew point temperature, green light indicated, that shows the temperature and humidity is normal.

If the measured temperature is within 2/3 range of environment temperature to dew point temperature, yellow light indicated that shows this place may mildew.

If the measured temperature exceed 2/3 range of environment temperature to dew point temperature, red light indicated, that shows this place already have mildew.

For example:

After switch on, measured environment temperature is 25˚C, relative environment temperature is 50˚%, dew point temperature is 13.8.	
Green light	Measured temperature is between (25-21.2) ˚C
Yellow light	Measured temperature is between (21.3-17.4) ˚C
Red light	Measured temperature is between (17.5-13.8) ˚C

5. Specification

Temperature range	(-50 to 380) ˚/ (-58 to 716) ˚F
Resolution	0.1
Emissivity	Fixed at 0.95
Temperature accuracy	(-50 to 20) ˚C/(-58 to 32) ˚F ±3.5˚C (20 to 380) ˚C/(32 to 716) ˚F 1%±1.5˚C
Wavelength range	8-14um
Humidity range	0-100%RH
Humidity accuracy	±3.5%(20% to 80%)
Dew point temperature	(-30 to 100) ˚C/(-22 to 212) ˚F
D:S	20:1
Operating temp.	0 to 50˚C(32 to 122˚F)
Storage temp.	-10 to 60˚C(-4 to 140˚F)
Relative humidity	10%~90%RH operating, <80%RH storage
Power supply	

6.Battery replacement

Open the battery cover, remove the battery, put in the new 9V battery, and then close the battery cover.