TrackSO

Solar PV Monitoring & Analytics

Datasheet
Dynalab Relative Humidity Sensor [DWT 8103]

Internet of Things

Solar Energy

Table of Contents

MODEL 3

DATASHEET 3

Introduction 3

Specifications 3

Disclaimer 4

Warranty 4

MODEL

DWT 8103

DATASHEET

Introduction

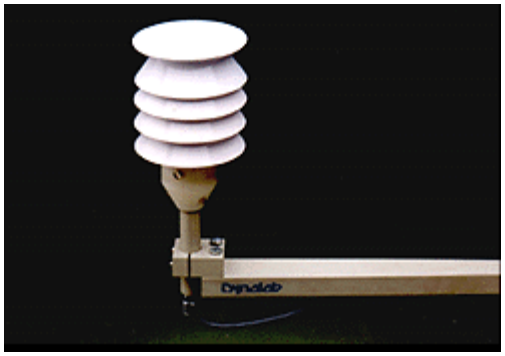
Humidity sensor features an improved design to provide highly accurate and rapid measurements.

PRINCIPLE OF OPERATION:
The humidity sensor is a thin film capacitor element. A dielectric polymer absorbs water molecules from the air through a thin metal electrode and this causes a capacitance change proportional to humidity. The response is essentially linear. A sintered filter is provided to protect the sensor element from dirt, atmospheric pollutant and water condensation.

A solid state electronic circuit is built in each probe to produce 0 to 5V output signal corresponding to relative humidity value 0 to 100%. The output is single ended.

Specifications

Sensing	Solid state capacity type sensor
Range	0 to 100 % operating at -40 C to +50 C
Resolution	0.1 %
Accuracy	+3% of full-scale reading
Output	A: 0-5V B: Modbus RTU
Weather Shield	ABS plastic molded Non-Aspirated weather shield coated with weather proof reflective white paint.
Size of body	250 (H) x 90 mm diameter. (with weather shield)
Sensor Cable Length	10m
Power requirement	5V ~ 4 mA.



Housing -Sensor mounted in a slotted tube on a Brass Epoxy coated or SS316 stem Inside a weather shield. The sensor is supplied with 10 Meters shielded cable

Dynalab Humidity Sensor with Shield DTH 8103 X

- **B** Brass Epoxy coated Stem
- **S** SS316 Stem

Disclaimer

This sensor is a low-cost alternative to the Class 1/Class 2 sensors of the same type. Since this sensor fall under no class, there will be some variation in the real vs. expected values. If you wish to minimise the error/deviation in output values, we recommend that you purchase Class 1/Class 2 sensor.

Please note this product is not manufactured by TrackSo, but sold by TrackSo, warranties are only to the limits extended by the original manufacturer.

The document is compiled only to help our customer learn about the product and install it with minimum hassles. We do not manufacture the product mentioned in this document or claim any part of it. Any information or services in this document does not constitute any endorsement or recommendation of such products or services by us. We do not warrant that the information contained in this document will be uninterrupted or error free, or that defects will be corrected. We will not be liable to you or to any other person for any direct, indirect, incidental, punitive or consequential loss, damage, cost or expense of any kind whatsoever from out of your usage of this document or the information provided therein.

Warranty

Applicable Warranty Term & Conditions is available on - https://trackso.in/warranty/

Repair - For all returns for repair or warranty claims, the customer must fill out a “Service Form”. The form is available from our website at https://trackso.in/service-form/. A completed form must be submitted online. TrackSo is unable to process any returns for repair or warranty until this form is received. If the form is not received within three days of product receipt or is incomplete, the product will be returned to the customer at the customer’s expense.

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