

Dogger

Temperature and Humidity Data Monitor



Technical Specifications:

On Board Sensor DHT22 (Sensing element Polymer humidity capacitor)

Temperature :

Temperature range----- -40 - 80 degrees C

Accuracy ----- +-0.5 degrees C

Relative Humidity:

Humidity from ----- 0-100% RH

Accuracy ----- +-2% RH

External Sensors :

RTD: 100 ohm(for 1000 ohm against order)

Sensor Types----- 2 wire /3 wire/4 wire Type RTD

Resolution ----- 0.5C

NTC : type 100k

Sensor Resistance Tolerances: 0.5%, 1%, 3%, 5%

Resistance: 100K

Sampling Rate: Every 2sec

Display:

Graphic 262K TFT Display

2.4 inch display size

Displays temperature

Displays humidity

Displays IP address of wifi or lan

Displays time and date .

Displays the status of the communication wifi or lan.

Displays the status of the SD memory card.green means sd card enable.red means sd card disable and blue means sd card not present.

Displays the sensor status as internal /external /NTC

Internal sensor ---INT

External sensor---EXT

NTC sensor -----NTC

If the temperature or humidity goes below or above the set value the display turns red.

If the temperature is between the set value then the display shows green

Displays Current Date time

Timer:

RTC with battery backup.

Battery type CR2032

Connectivity/Interface options :

MODBUS RTU/TCP

Ping time form settable form 5 to 1000 seconds

Device id settable 3 digit

IP address settable

Gateway settable

Port Number settable

Server mode or client mode settable in WI-FI

Server mode or client mode settable in LAN.

Default machine id 6 digit

SQL data dump(against the order)

USB (for Configuration purposes) :

USB for configuration .

Temperature calibration

Humidity calibration.

Set between internal sensor/RTD external/NTC external

SD card enable and disable with interval setting for datalogging.

Auto time set

Communication setting for wifi and lan

Raw data download form sd card in .CSV format(optional)

Storage options: Micro SD card up to 8GB:

On board flash memory used for storing the configuration

SD Card: Expandable upto 8GB .used for storing the data based on the intervals

Example: at the rate of 1 minute logging it can store up to 4lakhs records

Power Supply:

5 volt dc power supply. 2 amps

Internal Fuse protected.