Sensplorer

SP-SHT

Sensplorer Temperature & Humidity Module

CLOUD AND MOBILE MONITORING

Sensplorer's MQTT protocol support presents secure, accurate, prompt mobile and cloud based monitoring for the ambient temperature and relative humidity values.

TEMPERATURE and REL.HUMIDITY

Hardware and software solution that monitors ambient temperature and relative humidity with the most advanced sensor in the world.
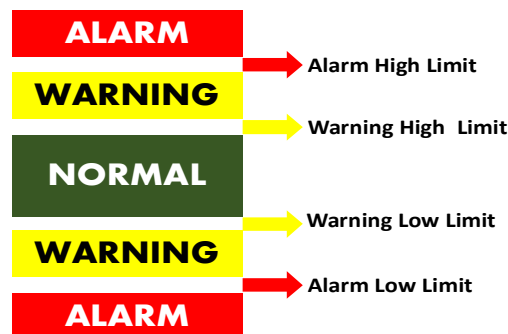
A UNIQUE NAME, CONFIGURATION AND "IF THIS THEN THAT" RULE CAN BE SEPERATELY ASSIGNED FOR EACH INDIVIDUAL SENSOR

Sensplorer's flexible , modern and user-friendly software gives you the freedom to use it any way you want. No design or system limitations

EXPANDABILITY

Sensplorer has a modularly expandable design protecting the current investment. The expansion size depends on the type of Sensplorer base module used

www.sensplorer.com

- **Precise ambient temperature and relative humidity sensor**
- **Linear measurement in between measurement ranges.**
- **Measurement with high accuracy and resolution**
- **User defined name, limits and hysteresis**
- **It can be used with all Sensplorer Base Modules**
- **Instantaneous status of the sensor will appear on the screen of the module.**

The Sensplorer Temperature & Humidity Module monitors the ambient temperature and relative humidity.

ALARM	→ Alarm High Limit
WARNING	→ Warning High Limit
NORMAL	
WARNING	→ Warning Low Limit
ALARM	→ Alarm Low Limit

Four treshold values are assigned to the each sensor which Sensplorer alerts when exceeded up or down.

The LCD screen on the module helps people to see the current state of sensors in the field and to intervene immediately.

It is connected to CAN bus of all types of Sensplorer Base Modules by using CAT5 / 6 UTP cable. The module receives its energy via this UTP connection, no seperate power supply is required.

The maximum length of CAN bus can be extended up to 200 meters.However power injection module may be required depending on CAN bus length and the number of CAN modules.

If the sensor value goes out of the range defined by the system admininistrator;

- *Users sensor assigned, "if defined", receive e-mail, SMS, phone call*
- *Sensplorer dashboard shows the status change on dashboard*
- *SNMP / Syslog servers ,"if defined", receives the traps/messages*
- *SCADA or BMS systems, ,"if defined", receives the traps/messages*
- *Sensplorer runs the specific rule(s) defined in case of this particular event*
- *All events and sensor's values are stored in the sensor history database for logging or reporting purpose in the future*

Technical Specifications

Temperature & Humidity Module

Power	: 12V DC , max. 2 W
Working Temp.	: 0 °C / +70 °C
Storage Temp	: -40 °C / +85 °C
Installation	: Wall mount
Dimension (W*L*D)	: 75 x 110 x 36 mm

Temperature Sensor

Measurement range	:-20 °C / +70 °C
Accuracy	: ±1 °C @ 25 °C
Resolution	: 0.01 °C
Meas. duration :	max. 30 seconds

Relative Humidity Sensor

Measurement range	: %0 - %100 RH
Accuracy	: ±%4 RH @ 25 °C
Resolution	: % 0.01 RH
Meas. Duration	: 8 seconds

Relay Output

Max working Voltages	: 30V DC or 250V AC
NO (normally open) side	:
± maks. 5A@AC / 1A@DC	
NC (normally closed) side	:
± maks. 2A@AC / 1A@DC	

Sample Sensplorer installation with CAN Modules

Sensplorer X/M/S/v3.0 Base Module

CAN Modular Expansion Bus (UTP)

Sensplorer CAN Expansion Modules

- 16-port Sensor Hub
- GSM Modem
- Temperature & Humidity
- Flooding / Water Leak
- 2-Port Dry Contact
- 16-Port Dry Contact
- 3-Phase Voltage
- 8-port Relay
- RS-485 Modbus RTU
- RS-232 Modbus TRU
- 12-port Digital Input
- AC Fuse Monitoring

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Teknokent No:2/5/4
34467 SARIYER
ISTANBUL-TURKEY
www.meg.com.tr

SENSPLORER
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