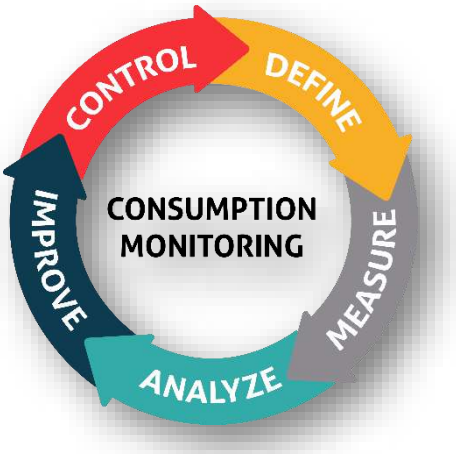
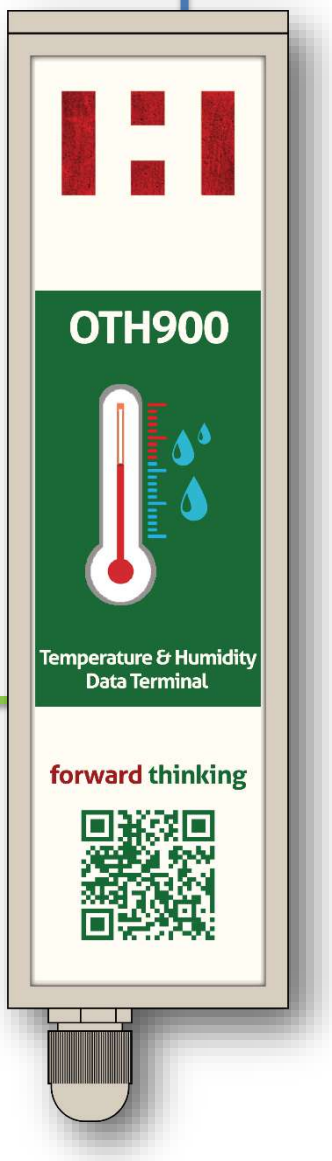
Temperature & Humidity Data Terminal

OTH900





brief features

OTH900 offers precise temperature and humidity monitoring with advanced sensor technology as compare with other well-known brands.

The OTH900 Temperature and Humidity Data Terminal stands out for its exceptional ability to deliver precise measurements across a spectrum of environmental conditions. Designed to operate reliably in diverse settings, from fluctuating temperatures to varying humidity levels, this advanced terminal ensures consistent accuracy in monitoring both temperature and humidity.

Whether in controlled environments or challenging outdoor conditions, the OTH900 guarantees robust performance, making it the preferred choice for professionals seeking unparalleled reliability in temperature and humidity monitoring.

The intelligent OTH900 use advanced dual core MCU. Web enabled intuitive and easy-to-use menu for monitoring, configuration and diagnostics. Modbus RS485 option can be used to connect with any PLC or SCADA.

applications customers

APPLICATIONS

For application in industrial and commercial temperature monitoring

- Cold Storage Facility
- Server Rooms and Data Centers
- Pharmaceutical Storage
- Warehouses and Logistics
- Industrial Processes

CUSTOMERS

Industrial and commercial sectors, such as:

- Agriculture
- Textiles
- Pharmaceuticals
- Dairy Cooperatives
- Quality Control Labs
- Research Institutions
- Chemical processing
- Power plants
- Bulk customers (housing societies)
- Hotels

technical specifications

FEATURES

The OTH900 telemetry system with latest CPU with forward-thinking algorithms and web server function modules makes it more user friendly.

Informative

- Smart phone/Laptop any using web browser.
- Remote server

Temperature

- Measuring range: -20~60 °C
- Accuracy: ±2°C

Humidity

- Measuring range: 5~95%
- Accuracy: ±5%

Environmentally Tough

- UPVC housing
- Wiring harness IP65 with water proof glands

Easy To Use

Operation can be done within minutes. Connect the field instrument with pre made wiring harness. Keep it online and configure it by using local App and get the data on online remote server.

Housing:

- Housing: UPVC IP 65 water proof
- Mounting: Wall mounting
- Size: 140mm X 38mm X 35mm

Communications:

3 types of communications available

- Modbus RS485 (Master)
- Wi-Fi for Web Server
- GSM/GPRS 2G/3G (Optional)

Setup

- Calibration, Configuration & OTA: From any web browser through smart phone or laptop Wi-Fi

SPECIFICATIONS

Power Supply: 9~24 V DC, 5 W

Password: 4 Level of passwords restriction

- Admin Account
- Configuration
- SSID
- OTA

EEPROM:

Data retention 20,000 records (100 B/Record)

CPU:

- Dual core up to 240 MHZ
- Flash RAM: 4 MB
- SRAM: 520 KB SRAM

Backup power:

5~7 Hours with Li-ion battery (Optional)

Transmission: User programable

- Interval: 1~60 Minutes
- Method: Using Mosquito broker via MQTT
- Protocol: MQTT

Configuration:

- Local: SPIFFS web browser
- Remote: Could server using MQTT protocol

Database: Mongo DB API development

Environmental:

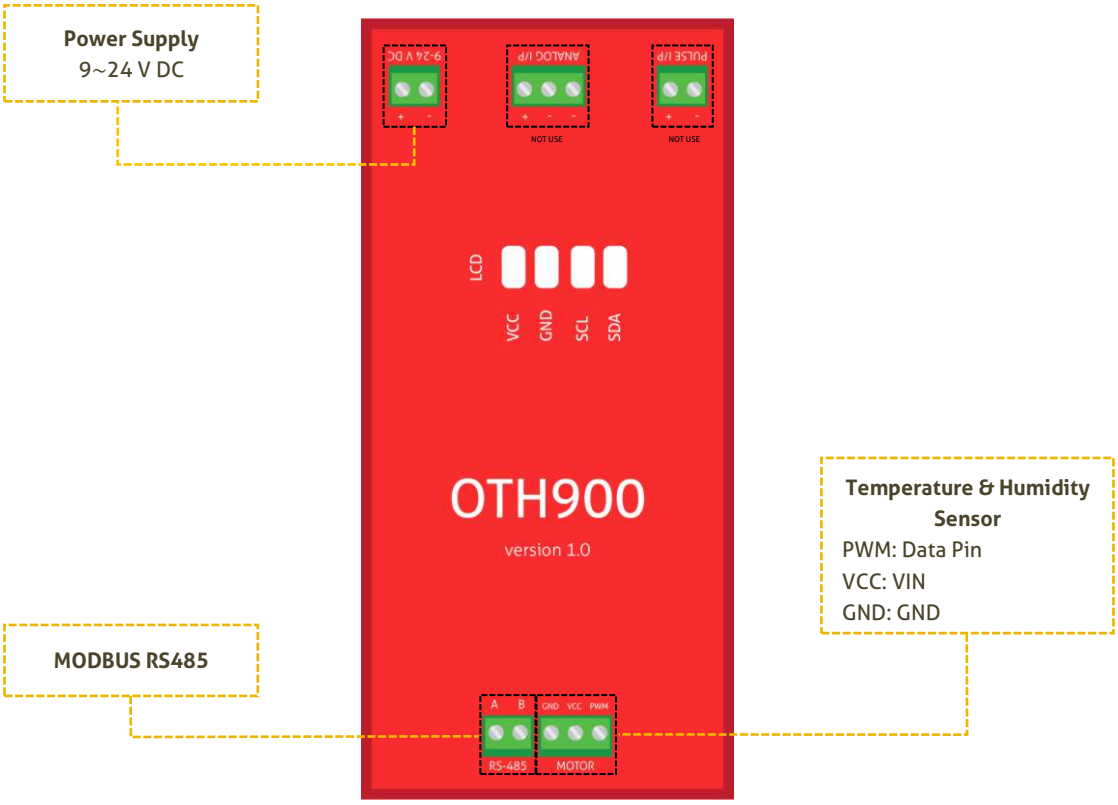
- Operating Temperature: -10~65 °C
- Storage: -40~85 °C
- Relative humidity: 10~90%

Connections:

- PCB: Removable screw terminal blocks
- Terminal block: Wire size: 0.5~0.7 mm
- Field connections: Wiring harness 3 meters

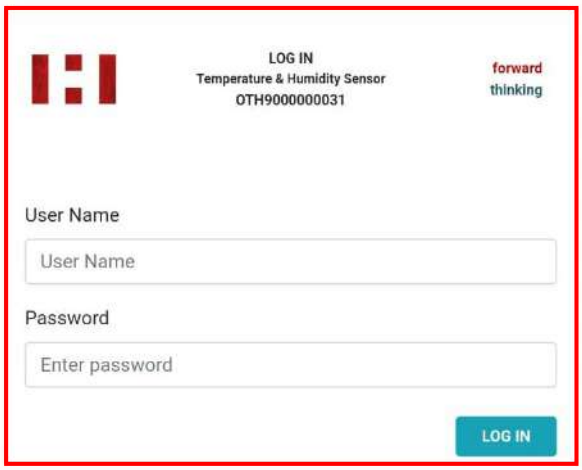
Warranty: 1 year after delivery

wiring connections



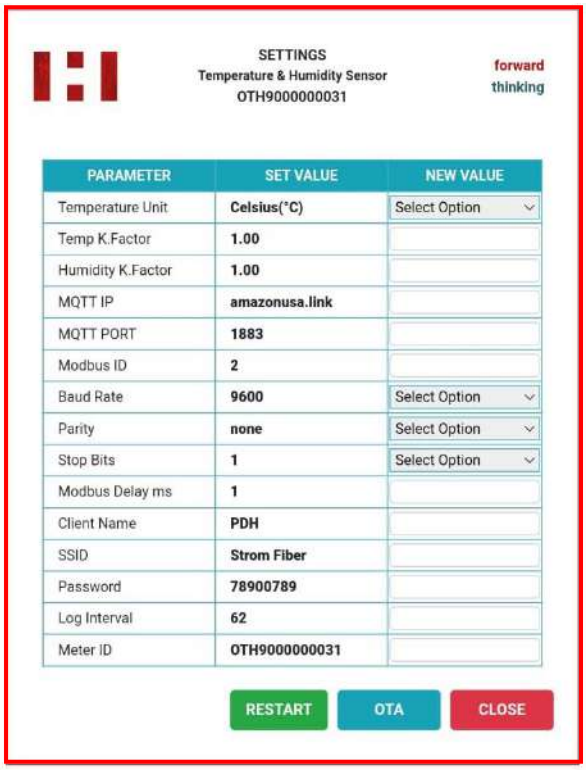
setup configuration

A user-friendly interactive web enabled browser interface for flow meter parameters configuration. Every screen is self-explanatory.



1ST Page
For Login Page
IP: 192.168.9.**54**
SSID: OTH900000xxxx
Password: hunchxxxxxxxxxx
User Name: hunch
Password: 77xx

Parameter display page



Settings Page
Configuration
Calibration

OTA
Over The Air firmware upload

communication Modbus tags

CONFIGURATION

OTH900 has built-in Wi-Fi module with complete SPIF web enabled stack. Therefore, there is no need of any special data communication hardware or software, an end user can easily configurate it by using any browser through HTTP. In configuration mode OTH900 will act as a Master.

MODBUS RS485

OTH900 has built-in Modbus RS485 module, therefore, end user can get the data to PLC, DCS, SCADA, OPC server or any data communication module/software.

DATA LOGGING

Furthermore, OTH900 has comprehensive feature of data transferring of its tags to local or cloud server by using its built-in Wi-Fi module in Salve mode through HTTP/MQTT. By using feature end user can log the data to its local or remote server for online monitoring and reporting purpose.

Standard Modbus tags detail is as under for communication.

DEFINE NAME	TYPE	ADDRESS	
Meter ID	Swapped long	0X02	Function code: 03 or 04 Register type: Holding register
Temperature	Swapped long	0X04	
Humidity	Swapped long	0X06	

mounting instructions

For proper Temperature and Humidity measurement, OTH900 should be installed properly.

forward thinking

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