

Querx TH

Web Thermometer, Hygrometer and Data Logger

Querx TH measures temperature and humidity precisely, calculates the dew-point and makes all the data available via LAN.

The smart sensor features an integrated data logger, alert functions and several interfaces for manual or automated data access.

The autonomous device is configured and controlled via a graphic web interface.



Features

Quick Setup

egnite Querx can be integrated into existing networks without any configuration effort and supports Zeroconf (mDNS, LLMNR) and DHCP.

Simple Operation via Web Interface

Each Querx operates completely autonomously, no special gateways or software installations are required. In the integrated web interface, the recorded measured values are available as interactive graphics for web browsers on the PC, tablet or smartphone.

Reliable Data Logging

Querx TH has integrated sensors for temperature and humidity.

The measured values are securely stored in the device every minute for at least 51 days. Logging takes place even if the network connection is disrupted and the recorded data is not lost even in the event of a power failure.

The device makes the data available via LAN.

Diverse Alerts

Querx TH will notify when configurable warning and alarm limits for temperature, humidity or dew point are breached, when values are rising or falling unusually fast, and

when values return to normal.

Notification takes place selectively via email, SNMP trap, FTP transfer, HTTP push or Syslog.

Data Export in Various File Formats

The network sensor can export data, making further processing and archiving simple. The CSV format is suited for spreadsheet software such as Excel. JSON and XML formats support automatic further processing in custom software solutions. Freely configurable data formats also allow flexible adaptation to existing systems such as cloud servers.

The data export can be triggered manually as well as time- or event-controlled.

Suitable for Monitoring Systems

The sensor can be integrated into network management systems such as PRTG, Icinga or Zabbix via SNMP. Modbus/TCP allows the use with SCADA in the industrial sphere. All logged and current data can be accessed from Python, PHP and other programming languages via HTTP.

Long-term Security

The Querx firmware is continuously improved and adapted to current developments. New versions are put online

from time to time. You can determine your currently loaded firmware version and start an update via the web interface.

Efficient Hardware

Even under adverse conditions, Querx functions reliably and even operates at temperatures between -40 °F and +185 °F (-40 °C and +85 °C). At the same time, Querx is highly economical. The power consumption is approximately 1 W. Either a free USB port or an external power supply unit is used for power supply.

Accredited Calibration upon Request

Calibration is a vital component of quality control. With an ISO or DAkkS (German accreditation body) certificate, the measurement characteristics of the Querx network sensor can be documented.

Specifications

Temperature Sensor

Measurement range -40 to 185 °F (-40 to 85 °C)

Initial accuracy ±1.8 °F over 32 to 149 °F
(±1.0 °C over 0 to 65 °C)

Resolution 0.1 °F (0.1 °C)

Long term stability Typ. ±30 mK per year

Humidity Sensor

Measurement range 0 to 100 % RH at 32 to 140 °F (0 to 60 °C)

Initial accuracy ±3 % RH at 20 to 80 % RH and 77 °F (25 °C)
±1 % RH hysteresis at 77 °F (25 °C)

Resolution 1 % RH

Long term stability Typ. 0.5 % per year at 10 to 90 % RH and 77 °F (25 °C)

Hardware and Interfaces

Ethernet 10/100 Mbit RJ45, HP Auto-MDIX, static or dynamic IP (DHCP, mDNS)

Security TLS (limited), user management (3 users / 3 groups)

Firmware updates Via web interface, recovery feature

Data memory 73700 entries, sufficient for at least 51 days

M2M interfaces HTTP, Modbus/TCP, SNMPv1

Web interface Interactive diagram, live update, data export

Email Up to 4 recipients and 2 SMTP servers

Signaller Status LED

Time / Date Real-time clock with battery backup and SNTP update

Supply voltage 5 V DC via micro-USB

Power consumption Typ. 120 mA, 0.6 W
Max. 200 mA, 1 W

Ambient Conditions

Operation -40 to 185 °F, max. 95 % RH
(-40 to 85 °C, max. 95 % rF)

Storage -40 to 185 °F, max. 95 % RH
(-40 to 85 °C, max. 95 % rF)

Mechanical data

Casing material ABS plastic, black, RAL 9011

Casing dimensions 2.2 x 1.6 x 0.8 in
(56 x 40 x 21 mm)

Sensor cable 13.4 in (340 mm)

Weight 0.07 lb (35 g)

Connectors RJ45 (Ethernet), micro-USB

Installation Wall mounting

Certification

Calibration DAkkS or ISO certificates for temperature and humidity optionally available

Interference immunity EN 61326-1:2013 Class A
EN 61000-4-2:2009
EN 61000-4-3:2011
EN 61000-4-4:2013
EN 61000-4-6:2009
EN 61000-4-8:2010

Emitted interference EN 61326-1:2013 Class B
EN 55011:2011

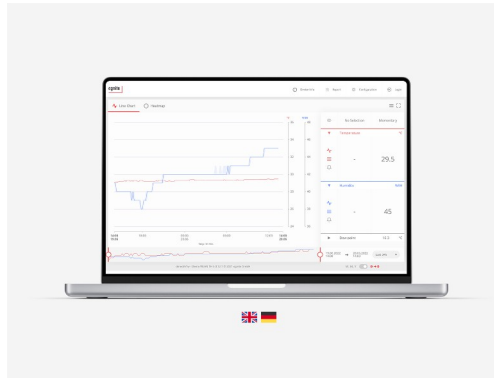
Flammability rating UL94V-0

Protection class IP20

RoHS standard EU Directive 2011/65/EU



TH sensor



Web interface



Connectors

Ordering information

Querx TH

Order No: EGN600214

Scope of delivery:

- Querx TH with integrated sensors for temperature, humidity

Querx TH Set

Order No: EGN600114

Scope of delivery:

- Querx TH with integrated sensors for temperature, humidity
- Ethernet cable
- Micro-USB cable
- Micro-USB power adapter with plugs for EU, UK, US, AU

shop.egnite.de

Learn more about Querx. Visit sensors.egnite.de