

### **Product Datasheet - Technical Specifications**



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### **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		Ambient Conditions	
Measurement range	-40 to 185 °F (-40 to 85 °C)	Operation	-40 to 185 °F, max. 95 % RH (-40 to 85 °C, max, 95 % rF)
Initial accuracy	±1.8 °F over 32 to 149 °F (±1.0 °C over 0 to 65 °C)	Storage	-40 to 185 °F, max. 95 % RH
Resolution	0.1 °F (0.1 °C)	Mechanical data	( 40 to 05° C, max. 55 /611)
Long term stability	Typ. ±30 mK per year	Casing material	ABS plastic, black, RAL 9011
Humidity Sensor		Casing dimensions	22 x 1 6 x 0 8 in
Measurement range	0 to 100 % RH at 32 to 140 °F (0 to 60 °C)		(56 x 40 x 21 mm)
		Sensor cable	13.4 in (340 mm)
Initial accuracy	±3 % RH at 20 to 80 % RH and 77 °F (25 °C) ±1 % RH hysteresis at 77 °F (25 °C)	Weight	0.07 lb (35 g)
		Connectors	RJ45 (Ethernet), micro-USB
Resolution	1 % RH	Installation	Wall mounting
Long term stability	Typ. 0.5 % per year at 10 to 90 %	Certification	
Hardware and Interface	RH and 77 °F (25 °C)	Calibration	DAkkS or ISO certificates for temperature and humidity
Hardware and Interfaces			optionally available
Ethernet	10/100 Mbit RJ45, HP Auto-MDIX, static or dynamic IP (DHCP, mDNS)	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
Security	TLS (limited), user management (3 users / 3 groups)		
Firmware updates	Via web interface, recovery feature	Emitted interference Flammability rating	EN 61326-1:2013 Class B
Data memory	73700 entries, sufficient for at least 51 days		UL94V-0
M2M interfaces	HTTP, Modbus/TCP, SNMPv1	Protection class	IP20
Web interface	Interactive diagram, live update, data export	RoHS standard	EU Directive 2011/65/EU
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		







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

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