egnite

Querx THP

Web Thermometer, Hygrometer, Barometer and Data Logger

Querx THP measures temperature, humidity and air pressure 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 THP has integrated sensors for temperature, humidity and air pressure.
The measured values are securely stored in the device every minute for at least 25 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 THP will notify when configurable warning and alarm limits for temperature, humidity, air pressure 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.

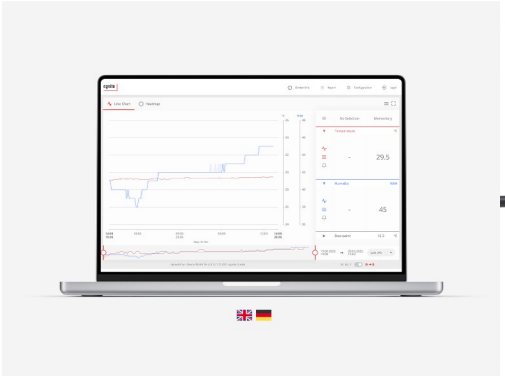
Accredited Calibration upon Request
Calibration is a vital component of quality control. With an ISO or DAkkS (German accreditation body) certificate, the measurement characteristics of the Querx network sensor can be documented.

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)
Air Pressure Sensor	
Measurement range	300 to 1100 hPa
Initial accuracy	±2 hPa at 800 to 1100 hPa and 32 to 149 °F (0 to 65 °C)
Resolution	0.1 hPa
Long term stability	Typ. ±1 hPa per year
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	36800 entries, sufficient for at least 25 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

THP sensor



Web interface

Connectors

Ordering information

Querx THP
Order No: EGN601916
Scope of delivery:
- Querx THP with integrated sensors for temperature, humidity, air pressure

Querx THP Set
Order No: EGN601816
Scope of delivery:
- Querx THP with integrated sensors for temperature, humidity, air pressure
- 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

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