

Querx WLAN THP

WiFi Thermometer, Hygrometer, Barometer and Data Logger

Querx WLAN THP measures temperature, humidity and air pressure precisely, calculates the dew-point and makes all the data available via LAN or WLAN.

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.

WPS simplifies integration into WLAN environments, alternatively, mobile devices can be connected directly to Querx WLAN.

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 WLAN THP has integrated sensors for temperature, humidity and air pressure. The measured values are securely stored in the device every minute for several years. 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 provides the data via LAN or WLAN and can therefore also be used in locations without a cable network.

Diverse Alerts

Querx WLAN 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, MQTT 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

If desired, data is transmitted encrypted via HTTPS respectively TLS. Own certificates can be installed for authentication. SNMPv3 is supported for secure network management. 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 $+185\text{ °F}$ (-40 °C and $+85\text{ °C}$). At the same time, Querx WLAN 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

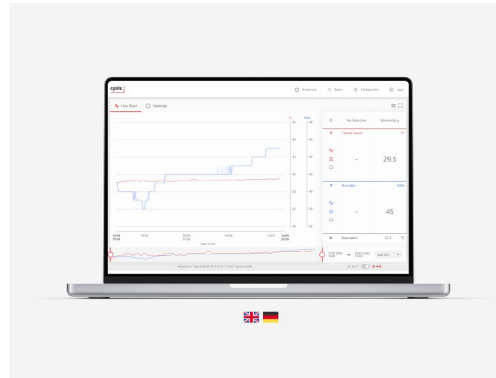
Calibration is a vital component of quality control. With an ISO or DAkkS (German accreditation body) certificate, the measurement characteristics of the Querx network sensor can be documented.

Specifications

Temperature Sensor		Time / Date	Real-time clock with battery backup and SNTP update
Measurement range	-40 to 185 °F (-40 to 85 °C)	Supply voltage	5 V DC via micro-USB
Initial accuracy	±1.8 °F over 32 to 149 °F (±1.0 °C over 0 to 65 °C)	Power consumption	Typ. 200 mA, 1 W Max. 300 mA, 1.5 W
Resolution	0.1 °F (0.1 °C)	Ambient Conditions	
Long term stability	Typ. ±30 mK per year	Operation	-40 to 185 °F, max. 95 % RH (-40 to 85 °C, max. 95 % rF)
Humidity Sensor		Storage	-40 to 185 °F, max. 95 % RH (-40 to 85 °C, max. 95 % rF)
Measurement range	0 to 100 % RH at 32 to 140 °F (0 to 60 °C)	Mechanical data	
Initial accuracy	±3 % RH at 20 to 80 % RH and 77 °F (25 °C) ±1 % RH hysteresis at 77 °F (25 °C)	Casing material	ABS plastic, black, RAL 9011
Resolution	1 % RH	Casing dimensions	2.6 x 2 x 0.8 in (66 x 50 x 21 mm)
Long term stability	Typ. 0.5 % per year at 10 to 90 % RH and 77 °F (25 °C)	Sensor cable	13.4 in (340 mm)
Air Pressure Sensor		Weight	0.2 lb (63 g)
Measurement range	300 to 1100 hPa	Connectors	RJ45 (Ethernet), micro-USB
Initial accuracy	±2 hPa at 800 to 1100 hPa and 32 to 149 °F (0 to 65 °C)	Installation	Wall mounting
Resolution	0.1 hPa	Certification	
Long term stability	Typ. ±1 hPa per year	Calibration	DAkkS or ISO certificates for temperature and humidity optionally available
Hardware and Interfaces		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
Ethernet	10/100 Mbit RJ45, HP Auto-MDIX, static or dynamic IP (DHCP Client)	Emitted interference	EN 61326-1:2013 Class B EN 55011:2011
WLAN	2.4 GHz IEEE 802.11 b/g/n	ETSI	EN 300 328, Ver. 1.8.1 EN 301.489 - 17
Security	WEP, WPA, WPA2, TLS 1.2, provision and verification of certificates, user management (3 users / 3 groups)	Flammability rating	UL94V-0
Firmware updates	Via web interface, recovery feature	Protection class	IP20
Data memory	2 million entries, sufficient for at least 3 years	RoHS standard	EU Directive 2011/65/EU
M2M interfaces	HTTP/S, Modbus/TCP, MQTT, SNMPv1/v3, FTP		
Web interface	Interactive diagram, live update, data export		
Email	Up to 4 recipients and 2 SMTP servers		
Signaller	RGB LED, beeper		



THP sensor



Web interface



Connectors

Ordering information

Querx WLAN THP

Order No: EGN602217

Scope of delivery:

- Querx WLAN THP with integrated sensors for temperature, humidity, air pressure

Querx WLAN THP Set

Order No: EGN602117

Scope of delivery:

- Querx WLAN 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

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Learn more about Querx. Visit sensors.egnite.de