

# Querx WLAN TH

WiFi Thermometer, Hygrometer and Data Logger

Querx WLAN TH measures temperature and humidity 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 TH has integrated sensors for temperature and humidity.

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 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, 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 °F (-40 °C and +85 °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		Ambient Conditions	
Measurement range	-40 to 185 °F (-40 to 85 °C)	Operation	-40 to 185 °F, max. 95 % RH
	±1.8 °F over 32 to 149 °F	ομειατιστι	-40 to 185 °F, max. 95 % RH (-40 to 85 °C, max. 95 % rF)
Initial accuracy	(±1.0 °C over 0 to 65 °C)	Storage	-40 to 185 °F, max. 95 % RH
Resolution	0.1 °F (0.1 °C)		(-40 to 85 °C, max. 95 % rF)
Long term stability	Typ. ±30 mK per year	Mechanical data	
Humidity Sensor		Casing material	ABS plastic, black, RAL 9011
Measurement range	0 to 100 % RH at 32 to 140 °F (0 to 60 °C)	Casing dimensions	2.6 x 2 x 0.8 in (66 x 50 x 21 mm)
Initial accuracy	±3 % RH at 20 to 80 % RH and 77 °F (25 °C)	Sensor cable	13.4 in (340 mm)
		Weight	0.2 lb (63 g)
	±1 % RH hysteresis at 77 °F (25 °C)	Connectors	RJ45 (Ethernet), micro-USB
Resolution	1 % RH	Installation	Wall mounting
Long term stability	Typ. 0.5 % per year at 10 to 90 % RH and 77 °F (25 °C)	Certification	
Hardware and Interface	-	Calibration	DAkkS or ISO certificates for temperature and humidity optionally available
Ethernet	10/100 Mbit RJ45, HP Auto-MDIX, static or dynamic IP (DHCP Client)		
WLAN	2.4 GHz IEEE 802.11 b/g/n	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	WEP, WPA, WPA2, TLS 1.2, provision and verification of certificates, user management (3 users / 3 groups)		
Firmware updates	Via web interface, recovery feature	Emitted interference	EN 61326-1:2013 Class B EN 55011:2011
Data memory	4 million entries, sufficient for at least 7 years	ETSI	EN 300 328, Ver. 1.8.1 EN 301.489 - 17
M2M interfaces	HTTP/S, Modbus/TCP, MQTT, SNMPv1/v3, FTP	Flammability rating	UL94V-0
Web interface	Interactive diagram, live update, data export	Protection class	IP20
		RoHS standard	EU Directive 2011/65/EU
Email	Up to 4 recipients and 2 SMTP servers		
Signaller	RGB LED, beeper		
Time / Date	Real-time clock with battery backup and SNTP update		
Supply voltage	5 V DC via micro-USB		
Power consumption	Typ. 200 mA, 1 W Max. 300 mA, 1.5 W		







TH sensor

Web interface

Connectors

### Ordering information

#### Querx WLAN TH

Order No: EGN601215 Scope of delivery:

• Querx WLAN TH with integrated sensors for temperature, humidity

#### Querx WLAN TH Set

Order No: EGN601115 Scope of delivery:

- Querx WLAN 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

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