egnite

Smart Sensors

Querx WLAN TH

Wireless LAN Thermometer / Hygrometer and Data Logger

Querx WLAN TH is a thermo-hygrometer with integrated data logger, alert functionality and numerous interfaces for manual and automated data access. The network connection is carried out either over Ethernet cable or over WiFi.

The stand-alone device is configured and operated via a graphical web interface.

Querx WLAN TH supports several cloud services. So you have access to measured data at anytime and from everywhere via web, app and API.

Models

Querx WLAN TH
Article EGN601215

Querx WLAN TH Set
Article EGN601115

Set: Querx WLAN TH plus Ethernet cable, micro-USB cable, USB power supply (GB, EU, US or AU), CD with documentation

Fields of Application

- Production and quality assurance
- Food hygiene (dry storages)
- Server room and rack monitoring
- Remote property monitoring
- Preventive conservation of cultural goods
- Climate monitoring in churches, wine cellars, paper warehouses
- and many more

Features

Integrated sensors
Temperature
Humidity
Dew point calculation

Network connection
100BaseT / RJ45 jack
WLAN 2.4 GHz IEEE 802.11 b/g/n

Data logger
Configurable logging interval
Capacity: 4 M records,
7.5 years (1 / min)
to 350 years (1 / h)

Web interface
Graphical web interface (HTTP/S)

Configuration
Automatic (Zeroconf, mDNS, DHCP)

Export data formats
CSV
XML

M2M protocols
HTTP/S (XML, CSV, JSON)
SNMPv1
Modbus/TCP
Syslog

Cloud exports
Xively
ThingSpeak

Types of alerts
Temperature / humidity:
too high, too low
rising too fast, dropping too fast
Dew point:
too high / too low

Alert notifications
E-mails (StartTLS / TLS)
SNMP traps
Syslog messages
Audible and visual alarms

Calibration
Optional accredited calibration

Temperature units
°Celsius
°Fahrenheit
Kelvin

Languages
Documentation:
German, English
Software:
German, English

Specifications

Technical data	
Measuring range temperature	-40 °C to 85 °C (-40 °F to 185 °F)
Accuracy temperature	±0.4 °C from -10 °C to 85 °C ±1.0 °C from -40 °C to -10 °C (±0.7 °F from 14 °F to 185 °F ±1.8 °F from -40 °F to 14 °F)
Resolution temperature	0.1 °C (0.2 °F)
Long-term stability temperature	0.01 °C (0.018 °F) per year, typical
Sampling rate	1 second
Measuring range humidity	0 % to 95 % RH
Accuracy humidity	±2 % RH from 0 % to 80 % RH and 30 °C (86 °F) ±4.0 % RH from 80 % to 95 % RH and 30 °C (86 °F)
Resolution humidity	1 % RH
Long-term stability humidity	0.25 % per year, typical
Humidity sensor	CMOS IC with polymide film
Calibration	Optional accredited calibration
Ethernet	10/100 Mbit RJ45, HP Auto-MDIX, static or dynamic IP (DHCP client)
System	Nut/OS 5
WLAN	2.4 GHz IEEE 802.11 b/g/n
WLAN security	WEP, WPA, WPA2
Firmware updates	Via web interface, rescue function
Logging interval	Configurable
Data capacity	4 M records, 7.5 years (1 / min) to 350 years (1 / h)
M2M	HTTP/S (XML, CSV, JSON), Syslog, Modbus/TCP, SNMP
Web interface	Interactive chart, live update, HTML5, CSS3, XML and CSV
Security	Start/TLS, HTTPS, password protection, user management (3 users / 3 groups)

E-mail	Up to 4 recipients via 2 SMTP servers
SNMP	SNMPv1 agent and traps
Signaler	RGB LED, beeper
Date / time	Battery backed real-time clock, SNTP update
Power supply	5 VDC to 5.5 VDC over micro-USB
Consumption	Typical 200 mA 1 W, max. 200 mA 1.5 W
Environment	
Operating conditions	-40 °C to 85 °C, max. 95 % RH (-40 °F to 185 °F, max. 95 % RH)
Storage conditions	-40 °C to 85 °C, max. 95 % RH (-40 °F to 185 °F, max. 95 % RH)
Mechanical data	
Housing material	ABS thermoplastic, black, RAL 9011
Housing dimensions	66.3 x 50 x 20 mm (2.6 x 2 x 0.8 in) plus sensing cable
Length sensing cable	340 mm (13.4 in)
Weight	63 g (0.2 lb)
Connector	RJ45 (Ethernet), micro-USB
Mounting	Wall mounting
Certificates	
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
ETSI	EN300 328, Ver. 1.8.1 EN301.489 - 17
Flammability class	UL94V-0
Protection mark	IP20
RoHS compliance	EU directive 2011/65/EU
Conformity	CE conform

You can find more information about Querx on our websites sensors.egnite.de and www.egnite.de.

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egnite develops, produces and distributes smart sensor systems, embedded systems and media controls.
For individual requirements, we modify our standard products according to your needs or corporately develop a specific solution.

egnite was founded in 1997 and is located in Castrop-Rauxel, Germany.