

# Querx PT

## Pt100 / Pt1000 Network Thermometer and Data Logger



Querx PT is an Ethernet-based thermometer for usage with any Pt100 / Pt1000 temperature probe. It provides an integrated data logger, alert functionality and numerous interfaces for manual and automated data access.

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

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

### Models



**Querx PT100**  
Article EGN600514

**Querx PT1000**  
Article EGN600814

**Querx PT100 Set**  
Article EGN600414

**Querx PT1000 Set**  
Article EGN600714

Set: Querx PT 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 (cold storage rooms, refrigeration)
- Laboratory and pharmacy
- Server room and rack monitoring
- Building services (heating, air conditioning, ventilation)
- Summer house, conservatory
- Sauna or pool thermometer
- and many more

### Features

#### Sensor

2-, 3- and 4-wire  
Pt100 / Pt1000 cable probe

#### Network connection

100BaseT / RJ45 jack

#### Data logger

Configurable logging interval  
Capacity: 73,728 records,  
51 days (1 / min)  
to 8.4 years (1 / h)

#### Web interface

Graphical web interface

#### Configuration

Automatic (Zeroconf, mDNS, DHCP)

#### Export data formats

CSV  
XML

#### M2M protocols

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

#### Cloud exports

Xively  
ThingSpeak

#### Types of alerts

Temperature:  
too high, too low  
rising too fast, dropping too fast

#### Alert notifications

E-mails (StartTLS / TLS)  
SNMP traps  
Syslog messages

#### Calibration

Optional accredited calibration

#### Temperature units

°Celsius  
°Fahrenheit  
Kelvin

#### Languages

Documentation:  
German, English  
Software:  
German, English

## Specifications

Technical data		Environment	
Measuring range temperature (sensor dependent)	-200 °C to 750 °C (-328 °F to 1382 °F)	Operating conditions	-40 °C to 85 °C, max. 95 % rH (-40 °F to 185 °F, max. 95 % rH)
Accuracy temperature (sensor dependent)	±0.5 °C (0.9 °F)	Storage conditions	-40 °C to 85 °C, max. 95 % rH (-40 °F to 185 °F, max. 95 % rH)
Resolution temperature	0.1 °C (0.2 °F)	Mechanical data	
Sampling rate	1 second	Housing material	ABS thermoplastic, black, RAL 9011
Pt100 or Pt1000 connector	2-, 3- and 4-wire	Housing dimensions	56.3 x 40 x 21 mm (2.2 x 1.6 x 0.8 in) plus sensing cable
Calibration	Optional accredited calibration	Length sensing cable	340 mm (13.4 in)
Ethernet	10/100 Mbit RJ45, HP Auto-MDIX, static or dynamic IP (DHCP client)	Weight	35 g (0.07 lb)
System	Nut/OS 5	Connector	RJ45 (Ethernet), micro-USB
Firmware updates	Via web interface, rescue function	Mounting	Wall mounting
Logging interval	Configurable	Certificates	
Data capacity	73,728 records, 51 days (1 / min) to 8.4 years (1 / h)	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
M2M	HTTP (XML, CSV, JSON), Syslog, Modbus/TCP, SNMP	Emitted interference	EN 61326-1:2013 class B EN 55011:2011
Web interface	Interactive chart, live update, HTML5, CSS3, XML and CSV	Flammability class	UL94V-0
Security	Start/TLS, password protection, user management (3 users / 3 groups)	Protection mark	IP20
E-mail	Up to 4 recipients via 2 SMTP servers	RoHS compliance	EU directive 2011/65/EU
SNMP	SNMPv1 agent and traps	Conformity	CE conform
Status LED	3 colours: red, green, yellow		
Date / time	Battery backed real-time clock, SNTP update		
Power supply	5 VDC to 5.5 VDC over micro-USB		
Consumption	Typical 120 mA 0.6 W, max. 200 mA 1 W		

You can find more information about Querx on our websites [sensors.egnite.de](http://sensors.egnite.de) and [www.egnite.de](http://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.