

Produkt-Datenblatt

Technische Daten, Spezifikationen

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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		