

Hygrometer PCE-HT 420IoT



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Data logger for temperature and humidity / MQTT / Power supply unit or PoE (Power over Ethernet) / LC display / Visualization in web browser / 8 GB memory

The data logger PCE-HT 420 is used to monitor the temperature and humidity. The datalogger is equipped with a network interface. This makes the PCE-HT 420 data logger an ideal solution for objects in which the measurement data must be continuously recorded and monitored. The datalogger continuously stores the measured values on its internal memory. This is read out via browser or FTP client. The web browser also makes all the settings on the datalogger. No additional software is needed. The architecture of the data logger allows up to 10 users to dial in to the datalogger at the same time. Different access levels prevent unauthorized users from making settings to the datalogger.

In addition to storing the measured values, the PCE-HT 420 data logger can also alert the user to an alarm when the limit value is exceeded. Furthermore, various users can be notified of this alarm via email.

The data logger PCE-HT 420 measures and calculates the following climatic variables:

- Temperature
- ▶ Relative humidity
- Dew point
- Absolute humidity, ie amount of water vapor (in grams) per m³ of atmosphere at certain temperature
- Cooling limit temperature
- Saturated vapor pressure, ie pressure, at which gas at the specified temperature in equilibrium with liquid (equilibrium between evaporation and condensation)
- Enthalpy (energy content)

The data logger is supplied via an external power supply unit or via Power over Ethernet. The built-in FTP server provides quick and easy access to archive files using an Internet browser or from the interface of another FTP client. The DHCP protocol allows you to automatically configure the datalogger on the computer network. Furthermore, the data logger supports the Modbus TCP / IP protocol, so that the PCE-HT 420 can also be integrated in machines. All these features make the PCE-HT 420 Datalogger an important instrument wherever indoor climate needs to be monitored.

- ▶ Temperature and humidity sensor
- ▶ Ethernet interface with MQTT function
- ▶ LCD display
- ▶ Alarms via email
- ▶ Audible warning sound
- ▶ 8 GB memory

Subject to change

Specifications

| | |
|-----------------------------|---|
| Measuring range humidity | 0 ... 95% rh (non-condensing) |
| Accuracy | ± 3% between 10 ... 90% ± 5% elsewhere |
| Hysteresis | ± 1% RH |
| Measuring range temperature | -20 ... 60°C / -4 ... 140°F |
| Accuracy | ± 0.6°C / 1.08°F in the range of 10 ... 40°C / 10 ... 104°F; ± 1.0°C / 1.8°F elsewhere |
| Calculated sizes | Absolute humidity g/m ³ Dew point temperature °C / °F Internal ring buffer: 4 MB* Internal hard disk 8 GB |
| Storage | *The measurement data from the internal memory is automatically transferred to the permanent memory |
| Interface | Ethernet 10/100 Base / T |
| Number of connections | Max. 10 at the same time |
| Protocol | DHCP FTP SMTP Modbus TCP/IP MQTT |
| Power supply | DC power supply 6V / 1 A PoE IEEE 802.3af |
| Input | <2VA |
| Warm-up time | 15 minutes |
| Operating conditions | -20 ... 60°C / 95% rh |
| Degree of protection | IP20 |
| Assembly | Rear mounting hole for wall mounting Sensor downwards |
| Weight | 300 g / < 1 lb |
| Dimensions | 120 x 80 x 25 mm / 4.7 x 3.1 x 1 in |

More information

Manual



More product info



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