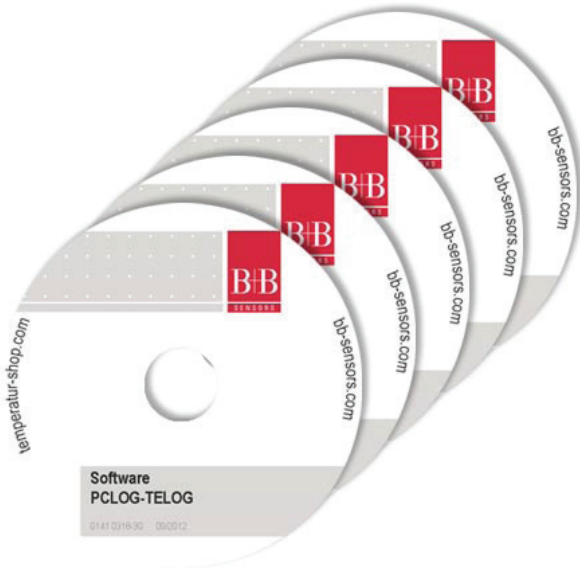


DATA SHEET



PC-Data logger for instrumentation applications - PCLOG

Description

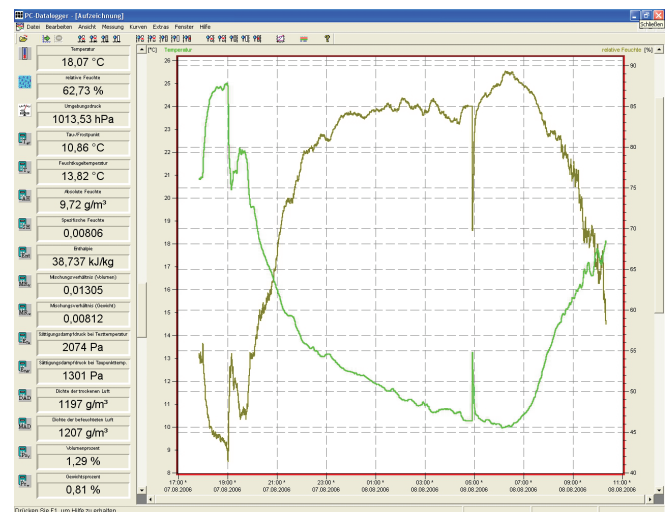


Visualisation and documentation

The most important feature of the software is the graphical representation of all measured and recorded channels in the form of a y/t diagram (online scriber function). By means of Drag & Click, the window section can be enlarged and the time or temperature axis can be scaled as desired. Up to 32 recording windows can be simultaneously opened. For each display window, two different or up to 8 similar physical parameters can be shown in which the axis designation, colour scheme, channel labels, icons and many further options can be freely configured. Besides graphic view, the representation of all channels is also possible in the form of a table. An intermediate file is used for capturing measured data series into a spreadsheet or word processing software through a user friendly wizard (Export function). For integration into customer's own software, a universal automatic export function has been provided which writes the measured values in a file at a selected temporary location. All tables and graphic representations can be printed out in color.

Characteristic features

- Display of current humidity and temperature values in the actual value window
- Graphical representation of measurements as online visualisation
- Recording of measured values in a file in unlimited virtual storage capacity of the PCs
- Limit monitoring with visual and acoustic alarm signal
- Integrated formula editor and units computer
- Integrated Hx-calculator for computation and display of dew point, absolute humidity, vapour pressure, saturated vapour pressure, enthalpy and also other climate related parameters
- Extensive configuration possibilities, options and adjustments

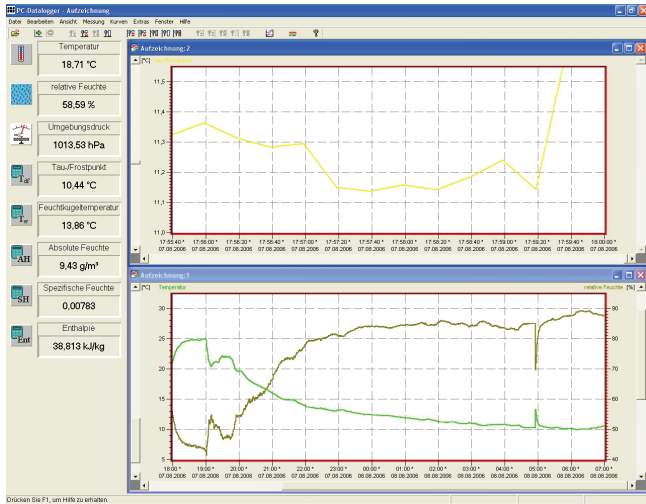


Areas of application

- High performance measuring system for scientific applications, laboratories, research, inspection and test beds
- Industrial instrumentation, stock rooms, production and quality assurance
- Measurements in refrigerators, monitoring for the purpose of cold storage regulations and also in food industry, trade and gastronomy

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Data recording

The PC as a data logger practically offers an almost unlimited storage capacity. According to the channel and recording options, PCLOG automatically carries out archiving of the data represented in the visualization window. With the help of import function, externally generated data of other devices can also be imported into the overall record.

Monitor and regulation functions

In addition, monitoring and regulation function can also be integrated into the software. Two independent limits can be defined for each channel. An overshoot or falling below the limits is visually represented by colour change of the measurement curve. If desired, an acoustic signal (wave file) can also be given out.

Over a relay card connected at the parallel interface, triggering of up to eight external loads is possible as per pre-defined limits, for example, an external alarm unit or a simple three-point regulator. The preset values for relay triggering are independently defined through its own parameter setting independent of the alarm limit settings. The limiting values and also the relay configuration can also be adjusted and changed during operation.

Formula editor

Apart from measured channels, PCLOG can also handle virtual channels. Hence complex calculations can be performed with the help of integrated formula editor with several measured input parameters, for example to linearise the measured raw values or to calculate a further dependent parameter from several measured values. The calculation formulas for frequently required parameters like dew point and wind chill are kept handy in the program.

Hx-Module

Special design for hygrometers: Another special feature of the program is the integrated Hx-calculator. This calculates relative humidity, temperature and configured pressure from the measured value and also further climate related parameters like dew point, wet bulb temperature, absolute humidity, specific humidity, enthalpy, mixing ratio by volume, mixing ratio by weight, saturated vapour pressure at ambient temperature, saturated vapour pressure at dew point, density of humid air, water content by volume, water content by weight as well as pressure specific correction factor. All calculation functions are pressure compensated over a wide range and are in line with the state of art in science.

Units calculator

The representation of measured or calculated parameters can be done in any unit system applicable for the parameter. The conversion of mantissa is done based on the stored conversion factors. The program supports both German and English languages. Depending upon the language setting, the measurement system gets changed to metric or imperial units by default.

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Internet connectivity

The Internet is an important information network today. World wide communication is possible with relatively low expenses, for which only a TCP/IP network with Router or in the simplest case only a modem with telephone connection is required. Hence, PCLOG also offers the provision to connect measuring instruments over TCP/IP or an Internet connection. With this facility, it is possible to access the measuring instrument available at any other place.

The measuring instrument is connected through the serial interface to a PC, which is in turn connected to the Internet and the server software „WATCHER“ is installed on it. This server processes the measured values of the attached measuring instrument and makes it available over a port. This port can now be accessed worldwide from any PC by the IP-address of the server and number of the port which is used for connection to the internet.

The version 2.0 of PCLOG consists of a client and TCP/IP, which enable connection to the server-software WATCHER. As a result, for example, it is possible to read and visualise measurement data from distant location over the Internet, which opens up completely new application areas.

Apart from its use on the Internet, connection to TCP/IP based Intranets is also possible. The server supports simultaneous access of several Clients and also secured connections (SSL) with password protection in order to prevent unauthorized access or misuse.

Simulator

The „Test version“ of the software is fully operational version with all program features. Without validation code, the software can always be tested by means of an available simulation. For using the software, a device specific validation code is to be entered. The validation code is included with the purchase license and makes the operation possible with the instrument.

Ordering number catalogue

Article	Art.-No.
WINDOWS Software PCLOG	PCLOG-TELOG
WINDOWS Software PROFILAB EXPERT	PROFILAB