PRESS INFORMATION

Nr. 11 02/2006

PC-based Measuring system

Humidity and temperature sensing element with USB-port

Apart from simple measurement, often the temperature or humidity process is to be recorded, for example for quality assurance activities or support system in laboratory experiments and weather measurements. Normally, further evaluation and processing of measurement data takes place as per the software so that there is a facility to capture data with the help of PCs.

The innovative USB-based measuring system in combination with the PC-Software ´PCLOG´ is an ideal, efficient measuring and recording system for temperature and climate data. With the integrated USB-port and “Plug&Play“ concept, the application becomes very simple: After connection to a free USB-Port and installation of software, the system is ready for use. The graphical representation and recording of measurements becomes convenient with the use of a PC.

The temperature sensor with handle has a 120 mm long stainless steel protective tubing and can be directly immersed in liquid or voluminous materials. The temperature range is right from –50 to 150°C. The USB-Interface is integrated in the handle itself. The connection to a PC is done through a flexible USB-cable of 1.5 m length.

The measuring system for combined humidity and temperature measurement works with a capacitive polymer sensor and offers outstanding long term stability. The sensor is protected with a plastic safety cap. The humidity measuring range is right from 0..100% rH with a measuring error of max. ±3% rH. Apart from actual measurement, the software calculates twelve more climate data viz. dew point, wet bulb temperature, absolute humidity, Enthalpy and vapour pressure. A special feature is the provision of calibrating the device. With the help of humidity reference cells, which are available as accessories, the user can himself check the accuracy or calibrate the humidity measuring element. Moreover, the USB-humidity sensor electronics is integrated inside the handle itself to arrive at a very compact size of the device.

Further information can be obtained from the manufacturer.

HYGROSENS INSTRUMENTS GmbH
Postfach 1054
D - 79839 Löffingen
Germany
http://www.hygrosens.com

For further Information please contanct:
Mr. Martin Friedrich
Telephone +49 7654 808969-0
Telefax +49 7654 808969-9
eMail martin.friedrich@hygrosens.com