HUMLOG20

Data logger for Humidity, Temperature, Air Pressure and CO_2

The HUMLOG20 facilitates exact and professional recordings for climatic measurements of humidity, temperature, air pressure and CO_2 concentration. The HUMLOG20 is ideally suited for monitoring indoor climate and control of all climate-sensitive production processes.
The long battery life and large memory allow for continuous data recording over long periods of time. The configuration of the data logger and the evaluation of the measurement data are simple and straightforward using SmartGraph3 software, which is included in the scope of supply.
The built-in Ethernet interface makes the HUMLOG20 Network capable, and ensures maximum reliability in data transmission.
Visual / acoustical alarm, a convenient one-button operation and the recording of MIN / MAX / AVG values are more powerful features of HUMLOG20.
For various requirements in the application, the three models **THI**, **THIP** and **TCO** are available.

HUMLOG20 THI

Typical Applications

museums and exhibition spaces
clean rooms
warehouses
electronic-data-processing centres
calibration laboratories

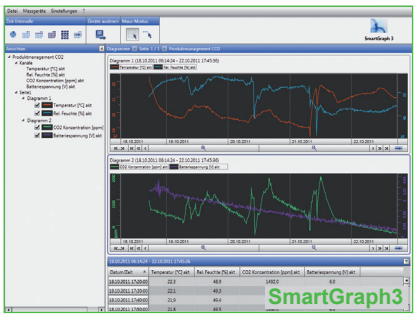
Features

large data memory
large format display
USB and Ethernet interface
network-capable
powerful software for data analysis

Measurement Categories	Model THI	THIP	TCO
Temperature (air)	✔	✔	✔
Relative humidity	✔	✔	✔
Absolute humidity	✔	✔	✔
Dew point temperature	✔	✔	✔
Barometric air pressure		✔	
Relative air pressure		✔	
CO_2 Concentration			✔
Functions			
Power supply battery	✔	✔	✔
Power supply USB	✔	✔	✔
Power supply LAN (PoE)	optional	optional	optional
Measured data storage	3,200,000	3,200,000	3,200,000
Typical battery life	> 1 year	> 1 year	> 4 months
LC-display	✔	✔	✔
One-button operation	✔	✔	✔
1-point calibration by operator	✔	✔	✔
°C/°F switchable	✔	✔	✔
Optical / acoustical alarm	✔	✔	✔
Date / time	✔	✔	✔
Records MIN/MAX/AVG	✔	✔	✔
SmartGraph3 evaluation software	✔	✔	✔
Functions Software SmartGraph3			
Graphical representation	✔	✔	✔
Numerical data (measured value display)	✔	✔	✔
Print function	✔	✔	✔
Export function for measured values (e.g. Excel)	✔	✔	✔
Gathered printouts of all measurement sites	✔	✔	✔
User administration	✔	✔	✔
Administration of up to 255 data logger	✔	✔	✔

HUMLOG20 THIP

HUMLOG20 TCO



Technical Data

General

Dimensions		length 166 mm, width 78 mm, depth 32 mm
Housing / protection class		plastic ABS / IP40
Battery lifetime	THI, THIP:	> 1 year
	TCO:	> 4 months
Data storage		16 MB, 3,200,000 measured values
LC-Display		size 90x64 mm
Weight		approx. 250g
Interface		USB, LAN (Ethernet)
Measurement rate		10/30s, 1/10/12/15/30min, 1/3/6/12/24h
Storage rate		1/1012/15/30min, 1/3/6/12/24h
Power supply		Battery 4 x LRG AA Mignon or USB, optionally the power supply via PoE (Power over Ethernet) is possible
Working range	Temperature:	-20...50°C (-4...120°F)
	Humidity:	0...95%RH (non condensing)
CE compatibility according		EN61000-6-2 EN55022 EN6100-4-2 bis EN6100-4-6

Measurements

Relative Humidity

Sensor	capacitive
Measurement range	10...95%RH
Accuracy	±2%RH
Resolution	0.5%RH

Temperature

Sensor	NTC
Measurement range	-20...50°C (-4...120°F)
Accuracy	±0.3°C (0...40°C; 32...102°F), otherwise ±0.5°C
Resolution	0.1°C

Air pressure (only Model THIP)

Measurement range	300...1300 hPa absolute
Accuracy at 25°C	±0.5 hPa in the range of 700...1100 hPa
Resolution	0.1 hPa

CO_2 (only Model TCO)

Sensor	NDIR 2-Beam Principle
Measurement range	0...5000 ppm
Accuracy	± (50ppm +3% of measured value)
Resolution	1 ppm
Long-term stability	20 ppm/year

Ordering Guide

MODEL		Accessories	
Temperature and relative humidity	**HUMLOG20 THI**	Power supply for HUMLOG20	**HA030106**
Temperature, relative humidity, air pressure	**HUMLOG20 THIP**	theft-proof installation kit	**HA030104**
Temperature, relative humidity, CO_2	**HUMLOG20 TCO**		
optional PoE (Power over Ethernet)	**-POE** (add)		

Order Example

HUMLOG20 THI
Data logger for Temperature and relative Humidity

HUMLOG20 TCO-POE
Data logger for Temperature, relative Humidity and CO_2 with PoE (Power over Ethernet)