

Multifunctional handheld unit with data logger for measuring flow rate, flow velocity, temperature, pressure and other variables



Measured variables

- flow velocity
- volume flow/flow rate
- standard flow rate
- mass flow
- temperature
- other freely definable physical values, in so far as measurable or deducible with the sensors suitable for connection

Media

- gases and gas mixtures
- liquids

Display units

- m/s, m³/h, l/min, l/s, kg/h, ft/min, cfm
- °C, °F
- hPa, %RH, mA ...
- m³

Advantages

- wide range of applications due to the variety of the connectable sensors FA, VA, TA, Pt100, ...
- data logger for up to 40,000 values with date and time
- USB interface
- 4-20 mA / 0-10 V input
- 12 V power supply for non-Höntzsch sensors
- various measuring modes
- large, illuminated display with graphical view
- easy-to-use, tactile key feedback
- with software HLOG II fully configurable on PC
- 100 storable user profiles
- protection class IP65

Examples of application

- flow measurement in all branches of industry, municipal facilities and public authorities, research and development
- measuring gas mass flow
- flow measuring in air, exhaust air, process gases, particulate and condensate laden emissions, exhaust emissions, aggressive gases with high working temperatures
- measuring in conveying air containing cement, carbon or toner
- measuring tasks on filters and ventilators
- system method to determine flow rate or average flow velocity of single measurements
- measuring the current velocity in bodies of water

U442_flowtherm_NT2_D_e_200708

Inputs

FA:

for vane wheel flow sensors FA

FT:

FA with temperature probe Pt100

FAR:

FA with $\pm$ directional sensing of flow

VA:

for vortex sensors VA

VAT:

VA with temperature probe Pt100

TA:

for TA sensors with thin-film sensor element

TAT:

temperature value TA sensor

Pt100:

temperature probe Pt100 in four-wire system

analog:

4-20 mA / 0-10 V selectable

USB interface

for data logger readout, for configuration, for external power supply via PC or mains adapter with USB connector.

Connection options

flange socket

8-pin : FA/FT/FAR
VA/VAT/Pt100

5-pin : TA

12-pin : analog input

USB

Typ 'B' : PC interface
mains supply

Power supply

mains or battery operated:

4 Mignon AA 1.2 V rechargeable batteries or

4 Mignon AA 1.5 V batteries

Running time

- with battery (DURACELL Industrial) : approx. 30 h

- with rechargeable battery (Ansmann Digital 2850 mAh): approx. 31 h

Keypad

membrane keypad with 9 embossed keys with tactile feedback

Display

graphic display

Real time clock

date/time for data logging, with buffering

Housing

plastic (ABS) with integrated holding magnet

W/H/L = 96/42/197 mm

Type of protection

IP65

Working temperature range

-10 °C ... +50 °C

Weight

approx. 520 g

Modes of measurement

instantaneous / long-term:

'Single measure', automatic

'AUTO', 'START' (timer),

'START-STOP',

determination of average,

minimum and maximum values

(with optional PC-Software

HLOG II)

Data logger

up to 40,000 data sets with date and time. Automatic storage in 'AUTO' mode.

The data can be transferred to a PC via a USB interface and PC software HLOG II.

Sensor configuration data

for 100 sensors, retrieval by means of serial number or random identifier. Configuration on the unit or PC with PC software HLOG II.

Measured value display

instantaneous values every second. Display of these values also with long-term measurement in 'START', 'START/STOP' and 'Single measure' mode.

Display up to 3 values simultaneously.

Counter available with long-term measurement

Prompts

status updates, display of time lapse during long-term measurement

Storage

inputs, parameters and performance data remain stored after switching off the device

Standard conditions

adjustable for FA-, VA-, TA-sensors

Menu navigation

German, English, French, Japanese

Operating Instructions

German, English

Order information / Accessories

Handheld unit flowtherm NT.2

USB plug-in power supply 100-240 VAC, 5 V / 1000 mA
for mains supply incl. 1.8 m USB cable

Software Set HLOG II

configuration of handheld unit and displaying data on a PC.
Data export as XLS and CSV file, chart export as JPG file
incl. 1.8 m USB cable and case

associated sensors FA, VA, TA as per sensor datasheet

Temperature probe TF500

Insertion probe for measuring range -100 °C ... +500 °C,
probe length w/o handle 300 mm, Ø 4.2 mm

Temperature probe TF350

Surface probe for -60 °C ... +350 °C

Extension cable

for input FA, FAR, FT, VA, VAT
waterproof connector 423-8 on both sides

longer than 5 m

longer than 5 m

3 m

5 m

basic price

per m

Y-Cable for simultaneous connection of a flow sensor and
temperature probe to the input of the flowtherm NT.2,
resistant to +60 °C, IP40, connector 680-8

Connector analog input

680-12, solder lugs

Connector cable analog input

Connector 680-12, IP40, exposed wire ends marked, 1.8 m

Carrying case type G

Dimensions 497x411x140 mm

Capacity suggestion:

1 flowtherm NT.2

1 plug-in power supply

1 extension cable

1 flow sensor

1 extension rod