

Multifunctional hand-held 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 variety of applications due to the diversity of the sensors suitable for connection - 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
- 2 analog outputs 0-10 V
- various measuring modes
- large, high-contrast display with optional backlight
- easy-to-use, tactile key feedback
- with software HLOG II fully configurable on PC
- 100 storable user profiles
- 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

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 sensor 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

Analog outputs

2 for 0-10 V, impedance 1 kOhm, freely assignable and configurable

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
analog output

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 Plus) : approx. 24 h
- with rechargeable battery (2850 mAh) : approx. 26 h

Keypad

membrane keypad with 9 embossed keys with tactile feedback

Display

high-contrast graphic display with activatable LED lit control panel

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 with proper sensor connection or with fitted protective caps

Working temperature range

-20 °C ... +50 °C

Weight

approx. 520 g

Modes of measurement

instantaneous / long-term:
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 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 HLOGII.

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, Japanese

Order information / Accessories		Article No.
Hand-held unit flowtherm NT		A000/560
USB plug-in power supply 100-240 VAC, 5 V / 1000 mA for mains supply incl. 1.8 m USB cable		A000/561
Software Set HLOGII 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		A000/522
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		A000/022
Temperature probe TF350 Surface probe for -60 °C ... +350 °C		A000/012
Extension cable for input FA, FAR, FT, VA, VAT waterproof connector 423-8 on both sides		3 m A000/015 5 m A000/016
longer than 5 m	basic price	A000/025
longer than 5 m	per m	A000/026
Y-Cable for simultaneous connection of a flow sensor and temperature probe to the input of the flowtherm NT, resistant to +60 °C, IP40, connector 680-8		A000/511
Connector analog input /analog output 680-12, solder lugs		A000/565
Connection cable analog input /analog output Connector 680-12, IP40, exposed wire ends marked, 1.8 m		A000/562
Carrying case type G Dimensions 497x411x140 mm Capacity suggestion: 1 flowtherm NT 1 plug-in power supply 1 extension cable 1 temperature probe 1 flow sensor 1 extension rod		A000/515

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