

**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, m<sup>3</sup>/h, l/min, l/s, kg/h, ft/min, cfm
- ° C, ° F
- hPa, %RH, mA ...
- m<sup>3</sup>

**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

<b>Order information / Accessories</b>		<b>Article No.</b>
<b>Hand-held unit flowtherm NT</b>		A000/560
<b>USB plug-in power supply</b> 100-240 VAC, 5 V / 1000 mA for mains supply incl. 1.8 m USB cable		A000/561
<b>Software Set HLOGII</b> 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
<b>associated sensors FA, VA, TA</b> as per sensor datasheet		
<b>Temperature probe TF500</b> Insertion probe for measuring range -100 °C ... +500 °C, probe length w/o handle 300 mm, Ø 4,2 mm		A000/022
<b>Temperature probe TF350</b> Surface probe for -60 °C ... +350 °C		A000/012
<b>Extension cable</b> 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
<b>Y-Cable</b> 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
<b>Connector analog input /analog output</b> 680-12, solder lugs		A000/565
<b>Connection cable analog input /analog output</b> Connector 680-12, IP40, exposed wire ends marked, 1.8 m		A000/562
<b>Carrying case type G</b> 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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