

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



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

- for use in explosive atmosphere ATEX category 2G (zone 1)
- 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
- · various measuring modes
- large 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

- landfill gas, natural gas blower, control measurement in explosive atmosphere, distribution measurement of natural gas, ...
- 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



Inputs

FA:

for vane wheel flow sensors FA

FT:

FA with temperature probe Pt100

FA with ±directional sensing of

flow VA:

for vortex sensors VA

VAT:

VA with temperature probe Pt100

for TA sensors with thin-film sen-

sor 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 (use only in non-explosive atmosphere).

Connection options

flange socket

: FA/FT/FAR 8-pin

VA/VAT/Pt100

5-pin

12-pin analog input

USB

Typ 'B' : PC interface

mains supply

Power supply

mains or battery operated: 4 Mignon AA 1.5 V batteries Keypad

membrane keypad with 9 embossed keys with tactile feed-

back

Display

grafic 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

TP65

Working temperature range

-10 °C ... +50 °C

Weight

approx. 590 q

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.

Explosion protection

Type of protection ib handheld unit for ATEX category 2G (zone 1)

Marking:

(II 2G Ex ib IIC T4 Gb

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 longterm 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-, TAsensors

Menu navigation

German, English, French

Operating Instructions

German, English



Order information / Accessories	
	Article No.
Handheld unit flowtherm Ex	A000/570
USB plug-in power supply 100-240 VAC, 5 V / 1000 mA for mains supply (use only in non-explosive atmosphere) incl. 1 USB cable	A000/561 .8 m
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	A000/522
associated sensors FA, VA, TA as per sensor datasheet	
Temperature probe TF400-Ex Insertion probe for measuring range -200 °C +400 °C, senso length 220 mm, Ø 4 mm, total length with handle 373 mm, for ATEX category 2G (zone 1)	
Battery pack Duracell Simply MN1500 AA, LR6 certificated batteries (4 pcs) for flowtherm Ex to be used in explantmospheres	A000/007 losive
for input FA, FAR, FT, VA, VAT waterproof connector 423-8 on both sides longer than 5 m bas longer than 5 m	3 m A000/015 5 m A000/016 sic price A000/025 per m A000/026
Y-Cable for simultaneous connection of a flow sensor and temperature probe to the input of the flowtherm Ex, resistant to +60 °C, IP40, connector 680-8	A000/516
Connector analog input 680-12, solder lugs	A000/565
Connector cable analog input Connector 680-12, IP40, exposed wire ends marked, 1.8 m	A000/562
Carrying case type G Dimensions 497x411x140 mm Capacity suggestion: 1 flowtherm Ex 1 plug-in power supply 1 extension cable 1 flow sensor 1 extension rod	A000/515