höntzsch
flow measuring technology

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
- 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

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Inputs
FA:
for vane wheel flow sensors FA
FT:
FA with temperature probe Pt100
FAR:
FA with ±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 (use only in non-explosive atmosphere).

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 1.5 V batteries

Keypad
membrane keypad with 9 embossed keys with tactile feedback

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
IP65

Working temperature range
-10 °C ... +50 °C

Weight
approx. 590 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.

Explosion protection
Type of protection ib handheld unit for ATEX category 2G (zone 1)
Marking:
⟨Ex⟩ 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 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

Operating Instructions
German, English

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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. 1.8 m USB cable	A000/561
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, sensor length 220 mm, Ø 4 mm, total length with handle 373 mm, for use in ATEX category 2G (zone 1)	A000/035
Battery pack Duracell Simply MN1500 AA, LR6 certificated batteries (4 pcs) for flowtherm Ex to be used in explosive atmospheres	A000/007
Extension cable for input FA, FAR, FT, VA, VAT waterproof connector 423-8 on both sides 3 m 5 m longer than 5 m basic price longer than 5 m per m	A000/015 A000/016 A000/025 A000/026
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