Hand-held unit HTA

höntzsch
flow measuring technology

A handy and easy-to-use anemometer for measuring standard flow velocity, standard volume flow and temperature of air and gases.

Höntzsch TA10 thermal flow sensors with thin-film sensor element can be connected to the HTA display unit for combined measurement of flow and temperature.

Höntzsch TA10 thermal flow sensors are capable of measuring not only the lowest but also high velocities and satisfy a wide spectrum of requirements for industrial application:

- chemical corrosion resistance
- small dimensions
- wide range of measurement

Examples of Application

- Determination of compressed air consumption
- Controlling measurement of air admission in clean-room conditions
- Flow measurement in clean-room technology installations
- Checking fresh and circulating air in motor vehicles
- Air and water tightness tests on windows and doors
- Filter resistive testing on safety benches
- Tracking down leakage in compressed-air ductwork systems
- Regulating and adjusting air conditioning and ventilating systems
- Measuring at inlet nozzles of aerators
- Controlling and stationary measurement with the opportunity of logging by line recorder
- Instantaneous value and long-term measurement
- Using velocity area method to determine the standard flow rate or the average standard flow velocity by approval tests and inspections for proof of guarantee according to VDI/VDE 2640
- Automatic conversion of a standard flow velocity to the standard volume flow using measuring tube diameter and profile factor

Corresponding Documents

U238 HTA Operating Instructions

U232 Thermal Flow Sensors TA10

U233 Price List TA 10 and Accessories

U234 User's Information TA10 Probes

flowline
SPECIALISTS IN FLOW MEASUREMENT

Hardware

Input (5-pin flange socket)
for Höntzsch TA10 thermal flow sensors with thin-film sensor element

Display panel
high-contrast LCD liquid crystal display, measured value display 13 mm high four-digit with decimal point as well as affiliated display unit, display of duration of measurement in seconds 6 mm high, adjustment and configuration instructions, operator's information, status displays 3 mm high.

Keypad
8 multifunctional keys

Interface RS232
for direct transfer of the stored measured values to a PC
(8-pin flange socket)

Analog output optional
0 … 4 V = 0 … x m/s
x = variable
(8-pin flange socket)

Power supply
by 9 V battery (operating time 11 hours) or HTA plug-in power supply (8-pin flange socket)

Housing
ABS plastic
W/H/L = 66/30 … 40/175 mm

Protective system
IP64 for the housing. Splash-proof protection can only be guaranteed if both the flange sockets in the housing are connected to a watertight connection plug or a screw cap according to regulations.

Working temperature range
0 °C … +50 °C

Weight
Approx. 265 g

Software

Linearizing of characteristics
TA10 thermal flow sensors are interchangeable by depositing the valid calibration number KKZ for each individual TA10 sensor in the HTA by keyboard entry.

Inputs, parameters and measurement data
non-volatile storage, retrieval possible even after switching OFF/ON or after power failure.

Measured value display
Instantaneous values every second. Display of standard velocity Nv, standard volume flow NV/t or temperature (resolution °C), selectable. Display of instantaneous value in the START mode also with long-term measurement. Display units: **m/s, m³/h, l/min, °C.**

Instrument settings
Measuring tube diameter, profile factor, display unit, calibration number KKZ, absolute pressure of the medium (for zero offset compensation), instantaneous value/long-term measurement SM/LM, long-term duration of measurement, long-term commencement of measurement automatic or after START, end of measurement follows automatically. Short-term time constant between 1 … 60 s variable. LM duration of measurement variable up to 9999 s.

Operator information
Status messages. Display of time lapse during long-term measurement.

Data logger

Data and measured value storage for 500 data records. When being stored the data records are automatically marked with a group number (up to 99 maximum) and serial number.

The data can be read out via the HTA RS232 interface with the Höntzsch PC software HTALOG for WIN9X in a PC.

Order data / accessories

	Article no.
HTA Display unit for measuring flow and temperature **Hardware** according to HTA data sheet, incl. battery **Software** according to HTA data sheet	a000/400
Connection cable for analog output Nv approx. 1.5 m long, one end fitted with connector 680-8, the other exposed strands	a000/406
CD ROM with PC software HLOG to HTA output RS232 Software HLOG for MS-Windows for read-out of the measured values stored in the hand-held instruments data logger in a PC. Connection cable fitted with connector 680-8 / D-Sub 9-pin, approx. 1.5 m long. CD ROM and connection cable in carrying case type E.	a000/405
HTA plug-in power supply for 230 VAC, 50/60 Hz	a000/403
Battery 9 V, 450 mAh, IEC/DIN6LR61	a000/005
HTA Carrying case Type D for 1 probe TA10-285…ZG1b 1 display unit HTA 1 HTA plug-in power supply 1 handle HG10/18A-130 2 extension rods VS18-350	a000/510
Light metal carrying case type A	a000/019
Thermal flow sensors TA with thin film sensor element see data sheet Thermal Flow Sensors TA with thin film sensor element	see data sheet U232

Subject to alteration

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