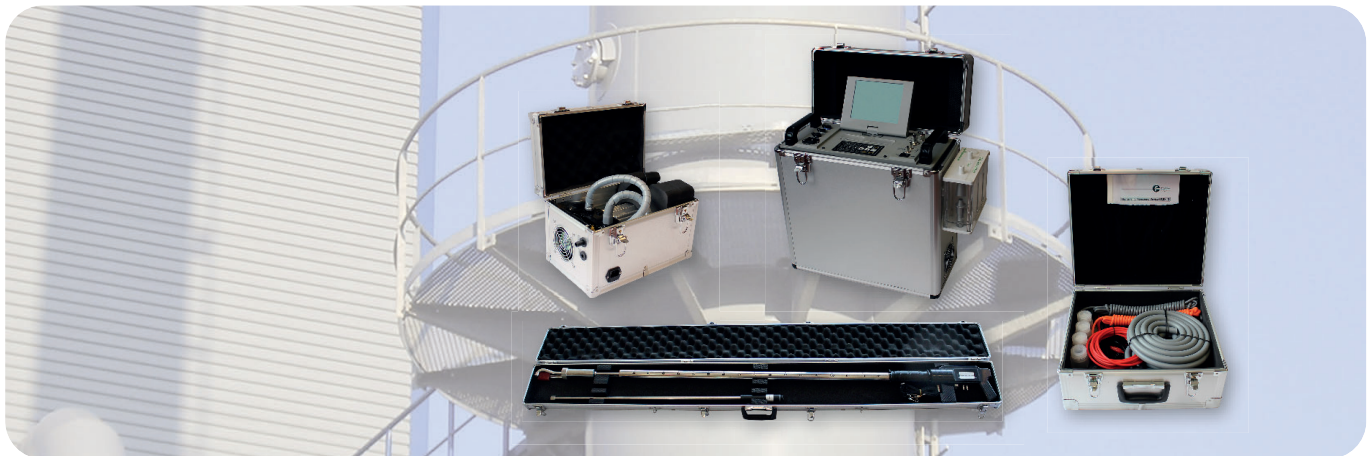


Gravimetric measuring system



Compact and high-grade automated system for isokinetic gravimetric dust measurement in exhaust ducts and stacks

APPLICATION

The gravimetric measuring device GMD 12 has the ability to measure all marginal parameters which are necessary for dust measurement (e.g. humidity of measuring gas, velocity in exhaust duct as well as temperature and pressure) on its own.

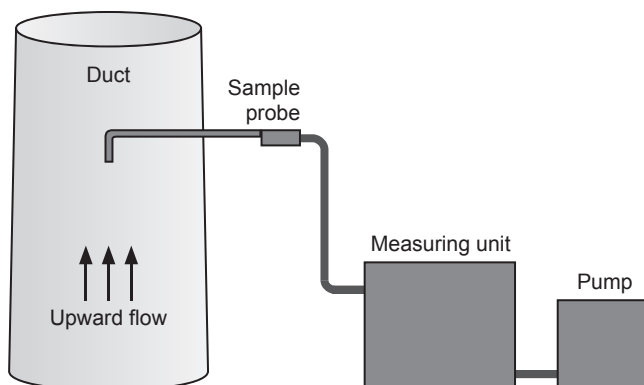
The GMD 12 consists of:

- measuring unit
- pump
- sample probes (dust probe, humidity probe)
- special accessories (e.g. filters)

YOUR BENEFITS AT A GLANCE

- semi-automatic measuring system
- easy and safe handling of the complete system by separately portable cases
- easy, menu-driven operating
- selection of the appropriate sample nozzle is assisted by the measuring unit
- storage of the current measuring values during measurement for future analysis
- ergonomic sample probe with integrated aerosol filter
- data transfer via compact flash memory card or RS232 interface

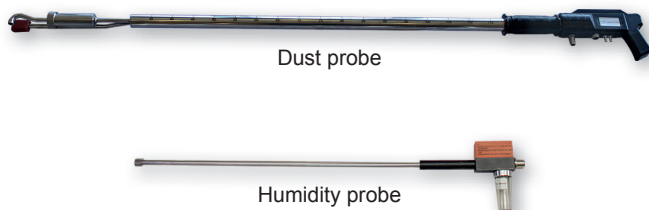
INSTALLATION EXAMPLE



PRECONDITIONS ON SITE

- ambient temperature: 0...50 °C
- location free of percussion
- dew-point spread: min. +5 K
- installation place with run-in/run-out zone of min. 5-fold/2-fold length of duct diameter
- accessibility to power supply
- socket with 3" welding sleeve at the duct

SAMPLE PROBES



FUNCTION

By means of the GMD 12 the measuring gas velocity, the measuring gas pressure and the sampled measuring gas volume are registered. Besides, the measuring gas humidity can be measured by a separate sample probe. Consequently, all relevant parameters for determination of dust content are registered by the system on standard conditions and the measuring gas sampling is regulated in fully automatic and isokinetic way.

TECHNICAL DATA

Measuring unit:	case model, 500 mm x 440 mm x 190 mm (w x h x d), approx. 13 kg
Pump:	case model, 350 mm x 240 mm x 220 mm (w x h x d), approx. 12 kg
Sample probes:	case with dust and humidity probe, 1570 mm x 120 mm x 230 mm (w x h x d), approx. 6 kg; max. cable length / max. distance to measuring unit: 5 m <ul style="list-style-type: none"> dust probe: length: 1550 mm; immersion depth: max. 1350 mm humidity probe: length: 950 mm; immersion depth: max. 650 mm
Accessories:	all necessary cables, hoses, filter elements as well as thermal printer; case with accessories: 410 mm x 370 mm x 210 mm (w x h x d), approx. 9 kg
Display / Operating:	pivoting graphic display integrated in the measuring unit; complete evaluation of measuring results; Languages: German, English, other optional (Latin characters)
Ambient temperature:	0...50 °C
Relative humidity:	no special sensitivity
Dew-point spread:	min. +5 K
Measuring gas temperature:	max. 280 °C
Optimal dust content:	0...1 g/m ³
Measuring ranges:	<ul style="list-style-type: none"> dynamic pressure: 0...10 hPa static pressure: -300...+300 hPa barometric pressure: 700...1100 hPa volume flow rate (sampling): 5...60 l/min temperature (previous to flowmeter): 0...95 °C temperature (exhaust): 0...280 °C humidity: 0...40 vol. % response time: < 8 s
Data output:	via Compact-Flash memory card (1 GB), RS232 interface or printer
Instrumentation opening:	3"
Power supply:	230 V AC / 50 Hz, 200 W
Optional:	<ul style="list-style-type: none"> special nozzles respectively sample probe for detection of dust and fine dust concentrations special plane filter head for measurement following EN 13284-1
<i>Special models are possible on request.</i>	