



Dust Measuring Devices SHC500 Gravimat, Gravimetric dust measuring device

SHC500



Type > **SHC500**



The SHC500 Gravimat is used for gravimetric measurements for the calibration of dust monitors and for comparison measurements in filter systems. A partial gas flow is extracted isokinetically via a filter head probe. The extraction process is controlled automatically and in real time. The dust content is determined by weighing the dust collector mass before and after extraction.

At a glance

- Nearly no dust loss due to optimized sampling system
- Automatic data recording and system control
- Isokinetic control in real time
- Automatic storage and evaluation of the measuring values
- Automatic measurement of the flow angle and detection of swirl effects

Your benefits

- High measurement accuracy even at low dust concentrations
- Measurement results are available immediately after sampling
- Due to the compact design and low number of components, only one person is necessary for transport and operation

Fields of application

- Calibration of continuous dust measuring devices
- Acceptance test measurements in filter systems
- Occasional check measurements
- Flow and temperature profile measurements, determination of the flow direction

Note

The exact device specifications and performance data of the product may deviate from the information provided here, and depend on the application in which the product is being used and the relevant customer specifications.

Technical data

Measurement principles:	Gravimetric analysis
Measured values:	Dust concentration
Max. number of measurands:	1
Measuring ranges:	Dust concentration: 0.1 ... 200 mg/m ³ / 50 ... 50,000 mg/m ³
Gas flow rate:	0.7 ... 3 m ³ /h
Process temperature:	High temperature version: 0 ... +600 °C With air cooling: 0 ... +400 °C Without air cooling: 0 ... +250 °C

Process pressure:	-50 ... 50 hPa
Process gas velocity:	2 ... 48 m/s
Ambient temperature:	-10 ... +50 °C
Conformities:	EN 13284-1 U.S. EPA conform
Electrical safety:	CE
Enclosure rating:	Opened: IP 54 Closed: IP 65
Analog inputs:	2 inputs: 0 ... 20 mA only SHC502
Interfaces and bus protocols:	RS-232: proprietary service interface
Operation:	Version SHC502 via operating software Via LC-display and function keys
System components:	AE50x automatic unit GS5 filter head probe Dust collector

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