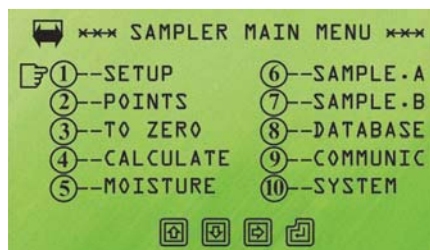


# Automatic sampling device for gravimetric dust measurements

Reference measuring system for calibration of dust measuring instruments [mg/Nm<sup>3</sup>] according to DIN EN 13284-1 and VDI 2066.

## Features

- Automatically registers all relevant parameters necessary for dust measurement, for example:
  - humidity of the measuring gas
  - velocity in the measuring gas duct
  - temperature
  - pressure
- Compact system consisting of probes and control unit
- Variable applications through probe adaptation to plant conditions
- On site diagnosis of the measured values on high resolution graphics display
- Stores up to 125 measurements
- Automatic calculation of the concentration in mg/Nm<sup>3</sup> after entering the filter weights
- Built-in log printer
- Serial PC interface
- Automatic calculation of the correct nozzle size
- Calculation of furnace efficiency through the standardization program, as required in China and other Asiatic countries
- Excellent price/performance ratio.



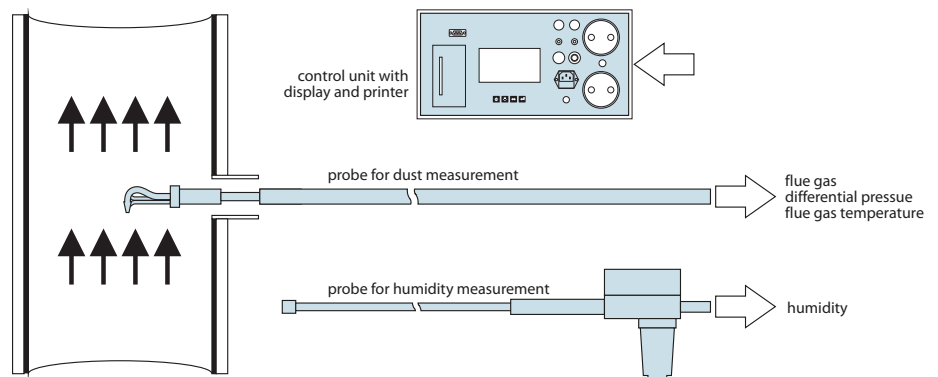
Display main menu



## Measuring principle

The D-RC 80 automatically extracts a partial gas stream isokinetically from the measuring gas duct. This partial gas stream is sucked through a filter in which the contained dust is deposited. At the end of the measurement the filter is conditioned and weighed.

After manual input of the weighed filter mass the D-RC 80 computes the dust content of the sample in the operational and standard state. The values can be printed by the integrated printer or put out through the built-in interface..



Measurements		General technical data	
dynamic pressure	0 ... 1.500 Pa	ambient temperature	-20 ... +50°C
static pressure	-30 ... 10 kPa	dew point difference	min. +5 K
barometric pressure	950 ... 1050 hPa	mains	230 VAC / 50 Hz, 200 VA
flue gas pressure	-50 up to +20 hPa, optional higher	data storage capacity	125 samples
volume flow (sampling)	10 ... 50 l/min	container dimensions (w x h x d), weight	measuring container: 400 x 370 x 200 mm, approx. 15 kg
temperature (before flowmeter)	0 ... 99°C		accessories container: 400 x 370 x 200 mm, approx. 6 kg
flue gas temperature	0 ... 400 °C	probe case: 1570 x 120 x 230 mm, approx. 9.5 kg	
humidity	0...40 Vol%		
response time	<8 s	installation depth: humidity probe max. 650 mm, dust probe max. 1350 mm	

