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ASP-3II Two-channel gas sampler

Application

ASP-3II Gas sampler features two independent measuring channels and it has been designed for taking air samples to assess air pollution through their adsorption and for taking samples of waste gases from emitters of different technological processes.

Construction and operation

This device is placed in the suitcase - shape casing with foil keyboard, microprocessor-controlled. It features an efficient pump producing high underpressure and built-in flow stabilizer providing steady flow at a time despite the change of resistance on filters. This flow is regulated fluently and measured with electronic flow meter of high accuracy. Current value of the flow is displayed on a big display type LED that is placed on the frontal plate. Amount of gas that should pass through adsorber is set before taking samples. There are two ways of regulation:

- the volume way - when the system stops sucking in gas after the set amount of gas passed through (the amount of gas that passed through is converted into conventional conditions).
- the time way- when the system stops sucking in gas after the set time.

After the system stopped taking, the amount of gas that passed through adsorber is displayed on the display.

Every device has got the calibration certificate from the PCA laboratory (Polish Centre for Accreditation).

Technical data

Measuring range of flow intensity	10 ÷ 70 or 20 ÷ 140 or 30 ÷ 210 dm^3/h.
Capacity of flow meter	up to 3000 dm^3
Reading accuracy	0,1 dm^3
Discrepancy (in temp. 25˚)	better than 1%
In the full range of working temperature	better than 2,5%
Indication accuracy	0,1dm^3/h.
Maximal input underpressure	15 kP_a
Dimensions	400x260x200
Weight	8 kg
Storage temperature	0÷70°C
Working temperature	5÷50°C
Power supply	220V 50 Hz 0,3A

Device facilities

- Maintenance - free drying of measurement lines.
- Electronic set-up and flow stabilisation seen on the display.
- Measurement of pressure and temperature in system.
- Flow stability.
- Time measurement with the option to set working time.
- Facility for overcoming high resistance of absorption system.
- Measurement of suction resistance
- Counting of sucked-in volume in real or conventional conditions.
- Facility for the transmission of recorded measurement data to PC.

Basic equipment

- Probe equipped with the handle for fixing of glass tubes with activated coal ϕ5÷10 and the fixing head with thread M 64x4.

Additional equipment

- Straight probe equipped with cone head made of Teflon which allows to fix it in measuring stubs that have small diameters of holes.
- Container with scrubbers/ the Purchaser gives the kind and the quantity of scrubbers.