



FollowFlow

Venturi flow meter for High Volume Samplers

Product Information



Digitel FollowFlow

The DIGITEL FollowFlow is a Venturi-type differential pressure flow meter developed on the basis of the Digital VenturiCal and ISO 5167. It is used for flow control of the Digital DHA-80 High Volume Aerosol samplers (HVS), replacing the standard rotameter flow control. FollowFlow allows for instantaneous flow regulation to constant ambient volume flow.

Design

The DIGITEL FollowFlow is made of anodized aluminium with the extremely inert Ematal-coating. The high quality differential pressure sensor and Swiss precision mechanics ensure stable long-term behaviour.

Installation

The conversion from Rotameter to Digital FollowFlow is possible on-site without requiring any additional tools. The module is installed in place of the glass tube with the float and plugged into the light barrier socket. An additional connection cable must be fitted and a software update carried out via USB. The use of an ambient pressure and temperature sensor is recommended for this option.

Operation

Once the FollowFlow module is installed, a flow calibration with an external reference flow meter (e.g. Digital VenturiCal) is necessary to ensure optimal operation. The DHA-80 software makes it easy to perform the initial and annual calibrations by automatically calculating and logging deviations and values.

Regular flow checks are recommended (e.g. every three months as described in EN12341) and are software-guided. Maintenance includes cleaning and exchange of sealing rings and should be carried out as part of the annual servicing of the DHA-80.

Suitability

The FollowFlow module is suitable for all DHA-80 HVS with control units from 2011 and on (standard samplers SN >1585, cooled samplers SN >5018, retrofits on HVS-11 control unit with “-T” extension).

KEY FEATURES

- Volume flow control based on ambient conditions
- Venturi type flow measurement
- For Digital High Volume Samplers DHA-80 from version 2011
- Flow range 200 - 600 l/min
- Installed instead of the Rotameter
- Easy on-site installation

Part Overview



Technical Data

Flow rate range	200 - 600l/min
Operating temperature range	-20° to 50°C
Operating pressure range	600 - 1100 hPa
Differential pressure sensor	Span repeatability: 0.5 % of the measured value Zero point repeatability <0.1 Pa Expected measurement uncertainty (calibrated): < 1%
Volume flow control accuracy	<2% (calibrated)
Material	Aluminium, Ematal coated
Dimension	80x65x410mm
Weight	<1kg
Scope of delivery	FollowFlow module, connection cable, USB stick with SW update

Have a question? We'd love to help!

If you have questions about anything, please contact us and we will be glad to assist you.

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