



DMF119

Digital Mass Flow Probe

The DMF119 - Digital Mass Flow Probe - is for **Pressure** and **Flow** measurement to be used with the NiloChecker.

DMF119 is equipped with a piezoresistive silicon pressure sensor offering a digital output. This technology combines high overpressure and bursts pressure, ensuring both protection and high sensitivity. Flow is measured with a MEMS-sensor, also providing accurate results at high sensitivity.

Application & Technology

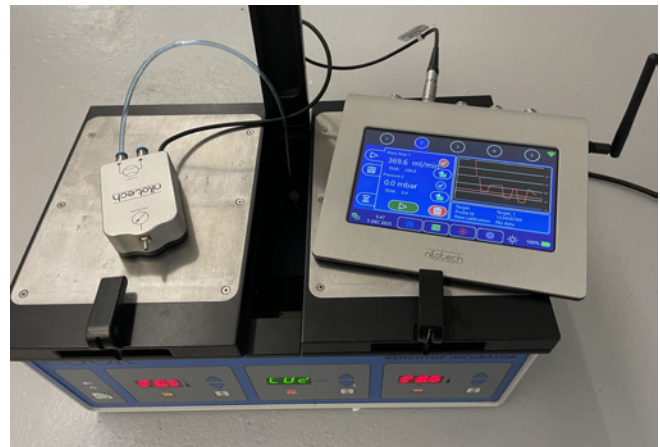
Application

DMF119 is intended for service, maintenance, and calibration of a range of equipment and is especially well suited for incubators using pre-mixed gas, and equipment using pneumatics as source of power: OPU-vacuum pumps, Micro-manipulators and other.

Pressure and Flow Measurement

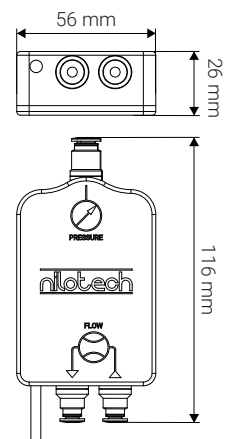
To satisfy different needs for different applications, the DMF119 can be equipped with a variety of nozzles and be calibrated within different dynamic ranges. The pressure sensor is extremely accurate +/- 0,25% of full-scale reading and has a very long lifetime provided it is used within specified range.

Note: The DMF119 should only be used with non-corrosive, non-ionic gases. DO NOT use the probe for applications involving flow-through of pure oxygen.



Specifications

Sensor types	MEMS mass flow sensor and piezoresistive silicon pressure sensor
Compatible instruments	NiloChecker
Communication	Serial Digital
Data in probe	Calibration offset, Calibration day and interval, Probe identification, Sensor data, Sensor range, Sensor accuracy
Measuring range	Flow: 0-1000 mL/min, Pressure: Standard is -800-1000 mBar or 0-2000 mBar. Specify at ordering or inquire for other range.
Accuracy	Flow: +/-6,5 mL/min (+/-0,65%FS), Pressure: +/-2,5 mBar (+/-0,25%FS)
T90 (min:sec)	<5 sec
Display resolution and update	0,1 mL/min flow and 0,1 mBar pressure, one update per second
Cable length/materials	1 m
Tube fittings	Flow: 4 mm push in, Pressure: Hose nipple for 2-3 mm soft hose
Operating conditions	0 - 50 °C, 5 - 95 % RH (Non condensing)
Compliance	CE with NiloChecker, RoHS, REACH
Calibration	Delivered with Factory calibration certificate. The probe has a zero-calibration function. Can be calibrated in accordance with ISO/IEC 17025. Calibration requires adaptor. Part no. 115s001



Ordering info

Part no: 119s003 - DMF119 Digital Mass Flow Probe - Delivered with factory calibration

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Document

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