

MFS Mass Flow System

Regulates flow rates from 75-2000
ml/min or 100-4000 ml/min

The MFS mass flow generator is capable of generating and maintaining set flow rates within 2% of full scale. The MFS is available in two standard configurations for flow ranges of 75-2000 and 100-4000 ml/min. Compared to conventional pump and mass flow control valve arrangements, it is quieter and uses less power without sacrificing accuracy or stability. The MFS is suitable for use as a primary flow generator for respirometry systems or any application that needs a regulated flow.



FEATURES

- Accurately maintains set flow rates
- 75-2000mL/min and 100-4000ml/min options
- Can be operated in pull or push flow mode
- Ideal for multi-channel respirometry
- Variable drive diaphragm pump
- Analog and serial data outputs
- PWM and PID control maximize pump life

MFS Mass Flow System

SPECIFICATIONS

ACCURACY AND RESOLUTION	Accuracy better than 2% of full scale typical, resolution 0.1 ml/minute below 100 ml/minute, 1 ml/minute above 100 ml/min
ANALOG OUTPUT	BNC; 0 – 5V; Settable in 6 different ranges, 1-2-5 steps, 0 – 100 ml/min to 0 – 5000 ml/min
CONNECTIONS	Nickel plated barb fittings for 1/8in (3mm) ID flexible or semi-rigid tubing
CONTROL ALGORITHM	PID (Proportional-Integral-Derivative) control for optimum stability; all PID parameters are adjustable by user
DIMENSIONS	(W x D x H) 8 x 14 x 6 in. (20.3 x 35.6 15.2 cm)
FLOW RATE	MFS-2: 75-2,000 ml/min, MFS-5: 100-4,000 ml/min
OPERATING TEMPERATURE	5 – 45 degrees C, relative humidity non-condensing
PANEL DISPLAY	Digital, 2 x 16 line alphanumeric LCD
POWER REQUIREMENTS	12 – 24VDC; universal adapter supplied
SERIAL OUTPUT	RS232-8N1; baud rate 9600; both polled and broadcast modes available
TECHNOLOGY	Calibrated, linearized mass flow meter and controllable diaphragm pump
WEIGHT	7 lbs. (3.2 kg)
SERIAL OUTPUT	RS232-8N1; both polled and broadcast modes available
TECHNOLOGY	Dual wavelength non-dispersive infrared spec-trometry with gold-plated optical path and sap-phire windows
WEIGHT	5 lb (2.3 kg)

ABOUT US

Sable Systems International designs and manufactures leading-edge gas, metabolic and behavioral measurement systems for calorimetry, respirometry, metabolic/behavioral phenotyping, and gas analysis. Our products enable the highest precision and resolution, optimum workflow and reliable performance – giving you utmost confidence in your results. Scientists the world over rely on Sable technology for their research needs in physiological, biomedical, environmental, and gas analysis applications.



www.sablesys.com

Sable Systems International
3840 N. Commerce Street
North Las Vegas, NV 89032, USA
TELEPHONE:
US: +1 800 330 0465 / + 1 702 269 4445
EMAIL: sales@sablesys.com



Sable Systems Europe GmbH
Ostendstr. 25
D-12459 Berlin, Germany
TELEPHONE: +49 30 5304 1002
FAX: +49 30 5304 1003