

SS-4 Sub-Sampler Flow Meter and Pump

Pulls or pushes a gas stream
through one or more analyzers

The SS-4-Sampler unites a pump, needle valve and linearized mass flow meter into a tough, compact instrument. Its individual gas ports can be used alone or in any combination, making it a versatile solution for sampling or sub-sampling in almost any gas analysis application.

The SS-4 is designed for pushing or pulling a gas stream through one or more gas analyzers. Usually this sample gas stream is sub-sampled from a source with a higher flow rate.

The linearized mass flow meter covers the range from 0 to 2000 ml/minute, with flow rate displayed on the two-line alphanumeric display. The high quality diaphragm pump provides quiet operation adjustable over a wide range using PWM (Pulse Width Modulation) - minimizing power consumption and diaphragm wear, and lengthening pump motor life.

Five analog output ranges are selectable from easily accessed menus on the device or via RS-232 commands. And due to Sable Systems' open serial protocol, the SS-4 is easily integrated into any data acquisition setup whether digital or analog.



FEATURES

Complete, versatile subsampling unit

Pull or push mode gas streams

Linearized mass flow meter

Variable drive diaphragm pump



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SPECIFICATIONS

ACCURACY AND RESOLUTION	10% of reading or 10mL/min (whichever is greater); 1mL/min
ANALOG OUTPUT	0-5 Volts, settable to any of 5 flow ranges from 0 – 100 ml/min to 0 – 2000 ml/min
DIMENSIONS	(W x D x H) 6 x 7 x 5 in (15.2 x 17.8 x 12.7 cm)
FLOW ADJUSTMENT	Dual flow adjustment. Digital control of pump drive combined with fine tune control using nickel-plated needle valve
FLOW METER	Mass flow meter, corrected to STP; can be user-calibrated for zero and span for greater accuracy
FLOW RANGE	Supports flow ranges of 0 – 2000 ml/minute
OPERATING CONDITIONS	0-50 °C, non-condensing
PANEL DISPLAY	Digital, 4 x 16 alphanumeric LCD
POWER REQUIREMENTS	12 VDC; Universal adapter supplied
PUMP	Long-life diaphragm pump and motor
RECOMMENDED CALIBRATION INTERVAL	1 Year
SERIAL I/O	RS-232-8N1; both polled and broadcast modes available”
TUBING FITTINGS	Nickel plated barb fittings for 1/8” (3 mm) ID flexible or semi-rigid tubing
WEIGHT	2.6 lb (1.2 kg)
WEIGHT	5 lbs (2.3kg)
TECHNOLOGY	Dual wavelength infrared with gold-plated optical path
TEMPERATURE RANGE	Operating, 18 to 45 C, non-condensing relative humidity
WEIGHT	6lbs/2.8kg (11lbs/5kg with packaging)

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.



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