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Flow Measurement & Contro

# Flow Measurement & Control Mass Flow Equipment

# **Model 8112 Series** Self-Contained Mass Flowmeter



Shown with optional 1/4" tube connections

## Description

The Model 8112 Series Mass Flowmeters are offered as a more accurate alternative to Matheson's Standard Tube Cube<sup>®</sup> flowmeters. This series bridges the gap between standard flowmeters and higher priced mass flowmeters.

#### Applications

The Model 8112 Series is designed to measure flow rates of noncorrosive gases. The 8112 Series is available in eight convenient ranges calibrated for nitrogen and can be used in most applications where a standard flowmeter was utilized previously. Typical applications include:

- Flow measurement of purge gases
- General laboratory or instrument flow monitoring
- Flow measurement of calibration standards used in
- environmental monitoring

### **Design Features**

- Self-contained direct reading of the flow rate
- Optional 9-pin connector for output data transmission
- Adjustable zero

#### Specifications

Maximum Operating Pressure: Optimum Operating Pressure: Temperature Range: Temperature Coefficient: Standard Calibration Temperature: Response Time:

Accuracy: Repeatability: Flow Capacity

Voltage Input:

Voltage Output: End Connections: Shipping Weight: 150 psig (1035 kPa) 20 psig (138 kPa) 0° to 50°C (32° to 122°F) 0.15% full Scale/1°C

0°C (32°F) 2 seconds to 98% of final flow (25-100% full scale) +/-1.5% full scale 20 sccm-20 slpm: 1 sccm to 20 slpm Nitrogen 12 VDC (12-15 VDC nominal); 100 mA max 0-5 VDC; 4-20 mA (optional) 1/4" NPT Female 2 lbs

Each unit is shipped calibrated for Nitrogen at 0°C. Each unit is also supplied with the power pack to supply voltage to the unit

### Materials in the Flowpath

Body and Sensor:

10% glass-filled Nylon 6/6 316 stainless steel Viton O-rings

<b>Ordering Information</b>	1	
Model Number	Range in Nitrogen	End Fittings
8112-0421	20 sccm	1/4" FNPT
8112-0412	100 sccm	1/4" FNPT
8112-0422	200 sccm	1/4" FNPT
8112-0452	500 sccm	1/4" FNPT
8112-0423	2 slpm	1/4" FNPT
8112-0453	5 slpm	1/4" FNPT
8112-0414	10 slpm	1/4" FNPT
8112-0424	20 slpm	1/4" FNPT
Options		
Model Number	Description	
8113-XXXX*	4-20 mA Output	
CON-0070-SA	1/4" Tube Connection (2 required)	
PWR-0009-XX	110 VAC Replacement Power Pack	



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\*use last 4 digits from 8112 series for required flow