

# 유량 교정기 (Mass Flow Multi-Meter)

## 용도(Applications)

- Air, O<sub>2</sub>, N<sub>2</sub>, N<sub>2</sub>O 의 정밀한 유량 측정 및 교정
- 유량, 부피, 압력 및 온도의 실시간 측정
- 공조, 의료, 환경 및 산업전반의 유량 측정 및 개발

## 특징(Features)

- 4ms의 빠른 응답 및 고정밀도의 유량측정
- 광범위한 유량에서도 2% 미만의 안정적인 정밀도
- 유량, 부피, 압력, 온도의 다양한 디지털 출력
- NIST 교정 인증서 기본 포함



Models : 4000 Series

## SPECIFICATIONS

		Low Flow – 4140 Series					High Flow – 4040 Series				
Model		41401	4140	41403	4143	41433	40401	4040	4043	4045	
Gas Calibration		Air	Air, O <sub>2</sub> , N <sub>2</sub>	Air, O <sub>2</sub> , N <sub>2</sub> , N <sub>2</sub> O	Air, O <sub>2</sub> , N <sub>2</sub>	Air, O <sub>2</sub> , N <sub>2</sub> , N <sub>2</sub> O	Air	Air, O <sub>2</sub> , N <sub>2</sub> , Air/O <sub>2</sub> Mixture			
Inlet/Outlet Diameter		0.25" (6.4 mm)			0.375" (9.53 mm)		22 mm ISO tapered	0.50" (12.7 mm)	0.75" (19.1 mm)		
Flow Measurement	Range	0.01-20 Std L/min					0-300 Std L/min	0-200 Std L/min	0-300 Std L/min		
	Accuracy - Air or O <sub>2</sub>	±2% of reading or 0.005 Std L/min, whichever is greater					±2% of reading or 0.05 Std L/min, whichever is greater				
	Accuracy - N <sub>2</sub>	±3% of reading or 0.010 Std L/min, whichever is greater					±3% of reading or 0.1 Std L/min, whichever is greater				
	Accuracy - Air/O <sub>2</sub> mixture	N/A					N/A	±3% of reading or 0.1 Std L/min, whichever is greater			
	Accuracy - N <sub>2</sub> O	N/A	N/A	±3% of reading or 0.010 Std L/min, whichever is greater	N/A	±3% of reading or 0.010 Std L/min, whichever is greater	N/A				
Response		4 ms to 63% of full scale flow					4 ms to 63% of full scale flow				
LCD Display Units		L/min, Std L/min, cm <sup>3</sup> /min, Std cm <sup>3</sup> /min					L/min, Std L/min				
Overall Dimensions		5" x 2" x 1.25" (127 mm x 49 mm x 32 mm)					7.2" x 2.5" x 2.1" (182 x 63 x 53 mm)				

		Low Flow – 4140 Series					High Flow – 4040 Series			
Model		41401	4140	41403	4143	41433	40401	4040	4043	4045
Volume Measurement	Range	0.01 – 99.9 liters					0.01 – 99.9 liters			
	Accuracy	±2% of reading (see Operator's Manual for additional details)					±2% of reading (see Operator's Manual for additional details)			
Pressure Measurement	Range	50-199 kPa absolute					50-199 kPa absolute			
	Accuracy	±1 kPa					±1 kPa			
	Response	<4 ms to 63% of final value for step charge					<4 ms to 63% of final value for step charge			
Temperature Measurement	Range	0-50°C					0-50°C			
	Accuracy	±1°C at flow greater than 1 Std L/min					±1°C at flow greater than 1 Std L/min			
	Response	<75 ms to 63% of final value for step change					<75 ms to 63% of final value for step change			
Outputs	Analog	0-10 VDC flow only, zero and span adjustable via RS232					0-10 VDC flow only, zero and span adjustable via RS232			
	Digital	RS232					RS232			
DC Power Input		7.5 VDC ±1.5 V, 300 mA max					7.5 VDC ±1.5 V, 300 mA max			
Mounting Threads		6-32, 0.25" (6 mm)					8-32, 0.25" (6 mm)			
Supplied		Power Supply, Computer Cable (mini-DIN to 9-Pin D-Sub), Analog Cable (mini-Din to tinned-wire), RS232 Serial Command Set Manual, Operator's Manual, Calibration Certificate, Inlet Filter								
Optional		Battery Pack/Stand for all Models, Hard-side Carrying Case								

