

Features (특징)

- •Range 0~5 sccm to 0~25 slm (N₂ Equivalent) •All-Metal Seals
- Status LEDs
 Auto-Zero (HFC-D-302 Controller Only)
- ·Totalizer
- ·Large Diameter Sensor Tube (Low dp)
- ·Low Wetted Surface Area
- Operating Pressures to 500 psi or higher
- ·NIST Traceable Calibration

Full Metal Body 의 Digital HFM 300A / HFC 302A 는 0~5 sccm 부터 0~25 slm(N₂) 구간에서 높은 정확도 ±(0.5% Rd + 0.2% F.S)를 구현합니다. 아날로그 및 디지털 출력을 제공하며, 반복적으로 신뢰할 수 있는 정확한 가스 유량을 측정합니다. 센서와 밸브 및 오버 플로우에 대한 진단 및 자동 영점 기능을 가지고 있습니다. Data Logging Software 를 기본 제공해 드립니다.

Applications and Industries (응용 분야)

Leak Testing
High Purity Gas Delivery
Thin Film Deposition
Gas Blending
Pharmaceutical
Fuel Cell R&D
Environmental Monitoring
Medical Research

Flow Unit (유량 단위)

기준 STP: 0℃ & 760 Torr / N2 ·SLM 0.005 ~ 25 ·SCCM 5 ~ 25,000 ·SCFH 0.01 ~ 52.97 ·Kg/Hr ~ 1.87 ·SM3/H ~ 1.5 ·Mole/Hr 0.01 ~ 66.92

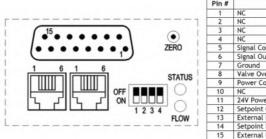
Specifications

HFM-D-300A (Meter)

HFC-D-302A (Controller)

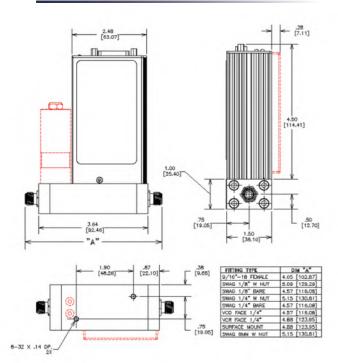
Range	0~5 sccm to 0~25 slm (N2)	0~5 sccm to 0~25 slm (N2)
Accuracy	$\pm(0.5\%$ of reading +0.2% of full scale)	±(0.5% of reading +0.2% of full scale)
Repeatability	±0.15% of F.S	±0.15% of F.S
Maximum Working Pressure	500 psig (optional 1000 psig)	500 psig (optional 1000 psig)
Operating Temperature	-20~70°C	-20~70°C
Warm up time	30 min for optimum accuracy (typical)	30 min for optimum accuracy (typical)
	6min within rated accuracy (typical)	6min within rated accuracy (typical)
Settling Time	Typically ≤ 1 seconds	Typically < 1~2 seconds
Temperature Coefficient of Zero	<±0.2% / °C of full scale max (-20~70°C)	N/A for controller with auto-zero enabled
Temperature Coefficient of Span	<±0.1% / °C of full scale max (-20~70°C)	<±0.1% / °C of full scale max (-20~70°C)
Attitude Sensitivity of Zero	<1.4% of full scale (N ₂ @ 50 psig)	<1.4% of full scale before autozero
Analog I/O (standard)	0~5 VDC	0~5 VDC
Analog I/O (optional)	0~10 VDC, 0~20 mA, 4~20 mA	0~10 VDC, 0~20 mA, 4~20 mA
Wetted Materials	316L SS, Nickel 200, 304 SS, 302 SS	316L SS, Nickel 200, 304 SS, 302 SS, Kalrez® (valve seat)
Weight (approx.)	2.2 lb. (1.0kg)	2.7 lb. (1.2kg)
Analog Connector	15 Pin D-sub	15 Pin D-sub
Digital Connector	Dual RJ-12, 6P6C modular jack	Dual RJ-12, 6P6C modular jack
Power Requirements	11~36 VDC @ 3.1 Watt (max)	11~36 VDC @ 6.7 Watt (max)
	Unipolar or Bipolar (e.g.±15 VDC, ±12 VDC)	Unipolar or Bipolar (e.g.±15 VDC, ±12 VDC)

Pin Map



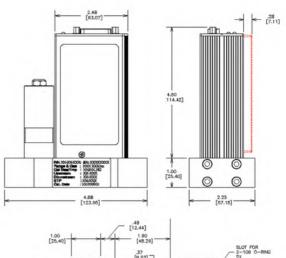


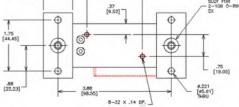
Outline Drawings



Flexible 15-Pin connector for analog I/O ELEDs (2) provide status and flow conditions Flexible conditions ELEDs (2) provide status and flow conditions ELED (2) provide status and flow conditions and flow conditio

Outline Drawings (Surface Mount)





Selection chart

