# 0~2,500 SLM Digital Mass Flow Meter / Controller HFM-D-305A MASS FLOW METER / HFC-D-307A MASS FLOW CONTROLLER



Features (특징)

Range 0~1,000 slm to 0~2,500 slm (N2 Equivalent) Self-diagnostic Status LEDs ·Auto-Zero (HFC-D-307 Controller Only)

·Totalizer

·Large Diameter Sensor Tube

Low Wetted Surface Area •Operating Pressures to 500 psi or higher ·NIST Traceable Calibration

Full Metal Body 의 Digital HFM 305A / HFC 307A 는 1,000 slm 부터 2,500 slm(N<sub>2</sub>) 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 Testings ·High Purity Gas Delivery ·Heat Treat ·Gas Blending •Secondary Calibration Reference •Fuel Cell R&D ·Environmental Monitoring

#### Flow Unit (유량 단위)

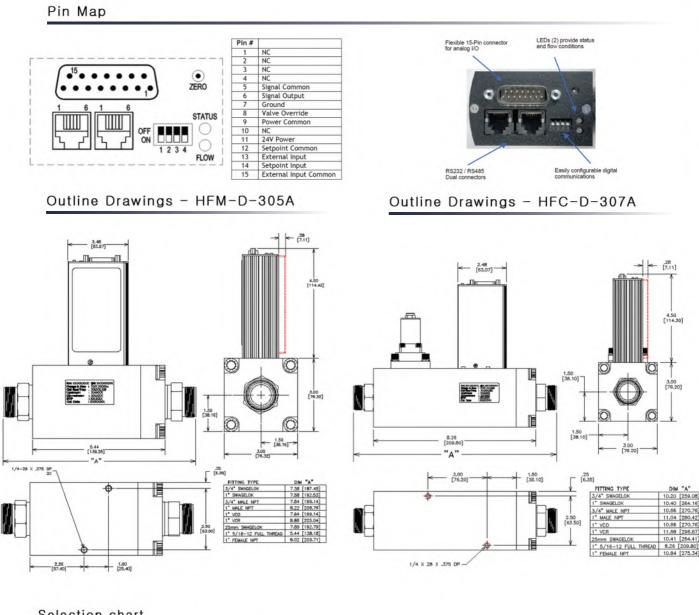
기준 STP:0℃ & 760 Torr / N2 1,000 ~ 2,500 2,118.9 ~ 5,297.25 74.99 ~ 187.48 60 ~ 150 ·SLM ·SCFH ·Kg/Hr ·SM3/H 2.676.91 ~ 6,692.27 ·Mole/Hr

## Specifications

HFM-D-305A (Meter)

HFC-D-307A (Controller)

Range	0~1,000 slm to 2,500 slm (N2)	0~1,000 slm to 2,500 slm (N2)
Accuracy	$\pm$ (0.5% reading +0.2% of full scale)	±(0.5% reading +0.2% of full scale)
Repeatability	±0.15% of F.S	±0.15% of F.S
Maximum Working Pressure	500 psig	500 psig
Operating Temperature	-20~70°C in non-condensing environment	-20~70°C in non-condensing environment
Warm up time	30 min for optimum accuracy	30 min for optimum accuracy
	6min within rated accuracy	6min within rated accuracy
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 reading max (-20~70°C)	< ±0.1% / °C of reading max (-20~70°C)
Attitude Sensitivity of Zero	<1.4% of full scale (N <sub>2</sub> @ 50 psig)	<1.4% of full scale before autozero (N <sub>2</sub> @ 50 psig)
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, 302 SS, PTFE, Viton	316L SS, Nickel 200, 302 SS, PTFE, Viton, Kalrez® (valve seat
Weight (approx.)	8.4 lb. (3.8kg)	15.5 lb. (7.0kg)
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)



# Selection chart

