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



## Features (특징)

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

- ·Totalizer
- ·Large Diameter Sensor Tube (Low dP)
- ·Low Wetted Surface Area ·Operating Pressures to 500 psi or higher
- ·NIST Traceable Calibration

Digital HFM 305B / HFC 307B 는 Teledyne Hastings 사의 300 시리즈 센서를 사용합니다. 0~1,000 slm 부터 0~2,500 slm(N₂) 구간에서 높은 정확도 ±(0.5% Rd + 0.2% F.S)를 구현합니다. 전면부의 컬러 터치 스크린 디스플레이로 유량을 측정 및 제어 할 수 있습니다. 24 VDC Jack 에 간단히 전원만 공급하면, 가스 유량의 측정 및 제어가 가능합니다. Power Supply 및 Display 장치, Lead Line 등이 필요없이 단일 제품만으로도 사용이 가능합니다. Data Logging Software 를 기본 제공해 드립니다.

### Applications and Industries (응용 분야)

- ·Leak Testing
- ·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 ·Mole/Hr  $2.676.91 \sim 6,692.27$

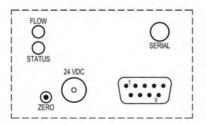
#### Specifications

HFM-D-305B (Meter)

HFC-D-307B (Controller)

Range	0~1,000 slm to 2,500 slm (N <sub>2</sub> )	0~1,000 slm to 2,500 slm (N₂)	
Accuracy	±(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℃ in non-condensing environment	-20~70℃ 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% / ℃ of full scale max (-20~70℃)	N/A for controller with auto-zero enabled	
Temperature Coefficient of Span	<±0.1% / ℃ of reading max (-20~70℃)	<±0.1% / ℃ of reading max (-20~70℃)	
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.)	8.5 lb. (3.9kg)	15.6 lb. (7.1kg)	
Analog Connector	9 Pin D-sub	9 Pin D-sub	
Digital Connector	Bayonet, 4-conductor TRRS 3.5mm jack	Bayonet, 4-conductor TRRS 3.5mm jack	
Power Requirements (w/ display)	11~36 VDC @ 4.6 Watt (max)	11~36 VDC @ 8.2 Watt (max)*	
	Unipolar or Bipolar (e.g.±15 VDC, ±12 VDC)	Unipolar or Bipolar (e.g.±15 VDC, ±12 VDC)	
		*15 VDC min reqd. for 0~20 & 4~20 mA operation	

## Pin Map

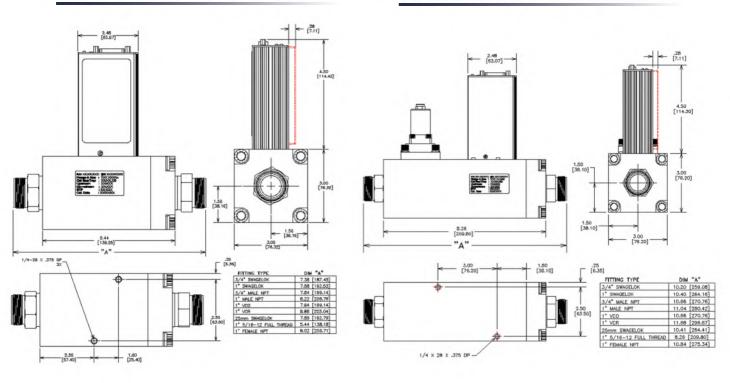


Pin #		
1	External Input	
2	Signal Output	
3	Set point Input	
4	Power Common	
5	NC	Т
6	Valve Override	
7	24V Power	
8	Signal Common	
9	Ground	



# Outline Drawings - HFM-D-305B

Outline Drawings - HFC-D-307B



## Selection chart

