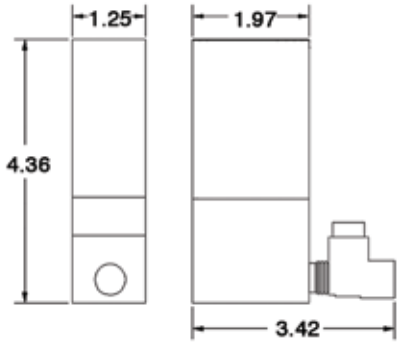
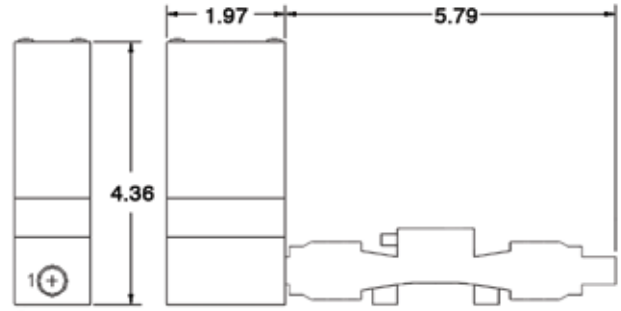
Mass Flow Controller

Non-Linear Version



Linear Version



** All Dimensions are in inches*

Accuracy:	Standard ±1.5% F.S. (10-100% rated flow)
Repeatability:	± 0.25% Full Scale
Medium:	Air, Nitrogen, Helium, Water, Gasoline, other mediums
Response Time:	50 ms or greater (depending on application)
Maximum Flow:	400 SLPM
Pressure Coefficient:	-0.0067% / PSI typical
Connections:	1/8" or 1/4" FPT Supply and Outlet Ports
Weight:	320 grams or .70 pounds
Power Required:	12 and 24 VDC +/- 10%, or 110 VAC adapter included with Turnkey version
Input Signal:	0-5, 1-5, 1-9, 1-10, 0-10 VDC, or 4-20 milliamps Internal: Adj. Potentiometer
Output Signal:	0-5 or 1-5 VDC
Operating Temp:	0-150 ºF or 0-65 ºC

Kelly Pneumatics, Inc. introduces the Mass Flow Controller. This product offers precise volumetric flow control for a variety of mediums and critical gases. These units are proportional valve driven, using patented proportional valve technology that ensures virtually frictionless performance, while offering excellent resolution, repeatability, and extensive product life. The Kelly Pneumatics Mass Flow Controller product line offers various models and product customization for optimal price savings. The product comes in two primary versions: one with backpressure compensation and one without; these two product versions can be further customized to include a digital display readout and a wall adapter for power supply, as well as open-loop or closed-looped control characteristics. An additional option for both linear or non-linear flow output is available for additional cost savings and product customization.

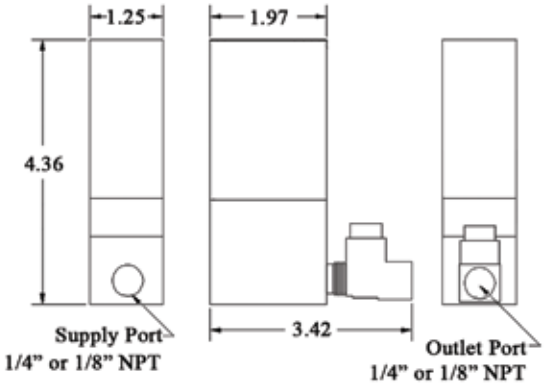
Wiring Description

Terminal No.	1*	2	3	4
Lead Wire Color	Brown	White	Blue	Black
Wiring	Power Supply	Input Signal	Common (Ground)	Output Signal

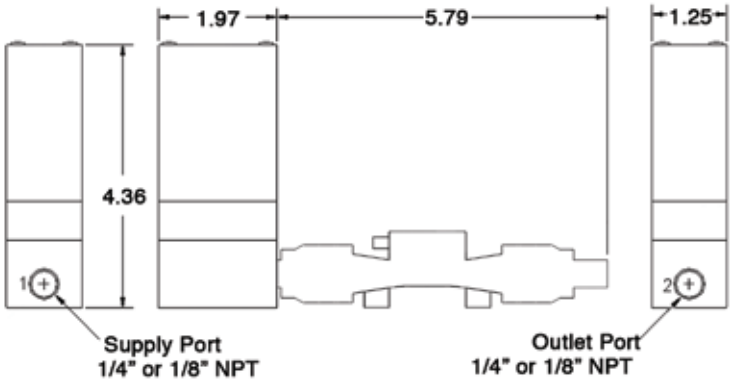
* Omitted with Turnkey Version

Mass Flow Controller

Non-Linear Version Dimensions



Linear Version Dimensions



Part Numbering System

MFC – ☐ – * – ☐ – ☐ – ☐

* *If both options are 00 leave blank and remove preceeding dash*

Medium:
A - Air
X - Oxygen
N - Nitrogen
H - Hydrogen
S - Similar to Air
W - Water
G-Gasoline
H - HFV Coolant
Q - Similar to water

+

Inlet Pressure:
100 - 100 psi
50 - 50 psi
25 - 25 psi
15 - 15 psi
N14 -(-14.7 psi)

+

Downstream Pressure:
Blank - 0 psi
100 - 100 psi
50 - 50 psi
25 - 25 psi
15 - 15 psi
N14 - (-14.7 psi)

+

Power Supply:
TK - Turnkey (supplied)
12 - Wire Leads, 12 volt
24 - Wire Leads, 24 volt

Inlet Signal:
00 - no inlet signal
05 - 0 to 5 vdc
15 - 1 to 5 vdc
19 - 1 to 9 vdc
010 - 0 to 10 vdc
110 - 1 to 10 vdc
420 - 4 to 20 ma

+

Outlet Signal:
00 - no outlet signal
05 - 0 to 5 vdc
15 - 1 to 5 vdc

Flow Units:
Enter Numeric Value

+

Flow Units:
MLPM - mlpm
LPM - lpm
GPM - gpm
GPH - gph
FTS - ft3 / sec
FTM - ft3 / min
FTH - ft3 / hour

Air Inlet/Outlet Ports:
Blank - 1/4 inch FPT
8 - 1/8 inch FPT

+

Additional Options:
Blank - Viton
E - EPDM
B - Buna-N

Performance Type:
Blank - Linear
NL - Non-Linear