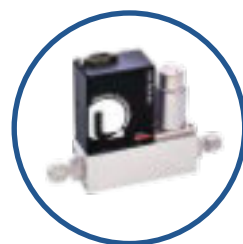
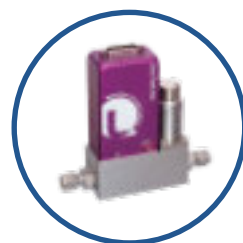




Mass Flow Solutions





Digital

Digital Mass Flow Controller Specifications

MODEL	Full Scale N2(slpn)	Accuracy (%FS)	Repeatability (%)	Response Time(sec)	In/Out Signal (Vdc/mA)	Supply Power (Vdc)	Max Operating Pressure	Max Operating Temp(°C)
MD30C	0.01 ~ 30	± 0.25	± 0.25	<1	0~5 or 4~20	+15 ~ 24	< 90 bar	0 ~ 50
MD100C	30 ~ 100	± 0.25	± 0.25	<1	0~5 or 4~20	+15 ~ 24	< 90 bar	0 ~ 50
MD400C	100 ~ 300	± 1.0	± 0.25	<1	0~5 or 4~20	+15 ~ 24	inquiry	0 ~ 50
MD500C	300 ~ 1000	± 1.0	± 0.25	<1	0~5 or 4~20	+15 ~ 24	inquiry	0 ~ 50
MD600C	1000 ~ 1500	± 1.0	± 0.25	<1	0~5 or 4~20	+15 ~ 24	inquiry	0 ~ 50
MD700C	1500 ~ 2500	± 1.0	± 0.25	<1	0~5 or 4~20	+15 ~ 24	inquiry	0 ~ 50
MD800C	2500 ~ 5000	± 1.0	± 0.25	<1	0~5 or 4~20	+15 ~ 24	inquiry	0 ~ 50

* Please contact us directly for range above 5,000 SLPM

Digital Mass Flow Meter Specifications

MODEL	Full Scale N2(slpn)	Accuracy (%FS)	Repeatability (%)	In/Out Signal (Vdc/mA)	Supply Power (Vdc)	Max Operating Pressure	Max Operating Temp(°C)
MD30M	0.01 ~ 30	± 0.25	± 0.25	0~5 or 4~20	+15 ~ 24	< 90 bar	0 ~ 50
MD100M	30 ~ 100	± 0.25	± 0.25	0~5 or 4~20	+15 ~ 24	< 90 bar	0 ~ 50
MD400M	100 ~ 300	± 1.0	± 0.25	0~5 or 4~20	+15 ~ 24	inquiry	0 ~ 50
MD500M	300 ~ 1000	± 1.0	± 0.25	0~5 or 4~20	+15 ~ 24	inquiry	0 ~ 50
MD600M	1000 ~ 1500	± 1.0	± 0.25	0~5 or 4~20	+15 ~ 24	inquiry	0 ~ 50
MD700M	1500 ~ 2500	± 1.0	± 0.25	0~5 or 4~20	+15 ~ 24	inquiry	0 ~ 50
MD800M	2500 ~ 5000	± 1.0	± 0.25	0~5 or 4~20	+15 ~ 24	inquiry	0 ~ 50

* Please contact us directly for range above 5,000 SLPM

MD30C

Digital Mass Flow Controller

Features

- Accurate at Low Flow
- Fast Response
- Wide Pressure Range Compatibility
- Excellent Linearity
- Long-Term Stability
- High Corrosion Resistance
- Highly Stable Removable Sensor
- Compact Connection

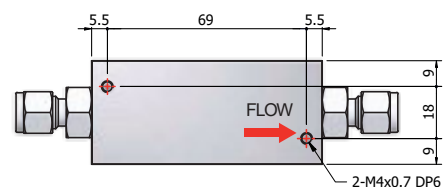
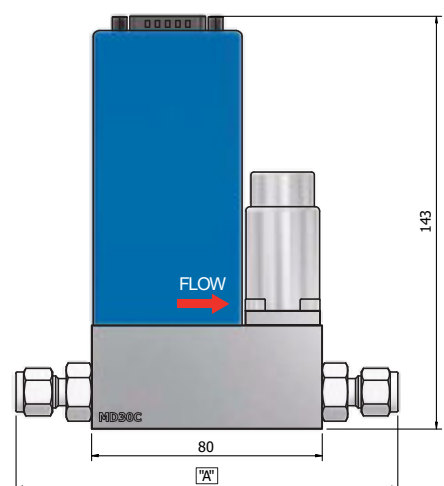
Digital Communication : [PIN14,15]

- RS -485 Communication
- Baud rate : 38400bps
- Data : 8Bit
- Stop Bite : 1Bit
- Parity : None

Specifications

Model	MD30C
Range(N2)	0.01slpm~30slpm
Response Time	<1 sec
Accuracy	±0.25% of FS
Repeatability	±0.25%
In/Out Signal	0~5Vdc or 4~20mA
Supply Power	+15 ~ +24Vdc, 350mA
Max Operating Pressure	<90 bar
Max Operating Temp	0~50°C
Leak Rate	1×10 ⁻⁹ atm. cc/sec
Control Range	3~100%

Connection	"A" Dimension(mm)
1/8" SW	126.7
1/4" SW	128
3/8" SW	134.3
1/4" VCR	127.8



MD30M

Specifications

Model	MD30M
Range(N2)	0.01slpm~30slpm
Accuracy	±0.25% of FS
Repeatability	±0.25%
In/Out Signal	0~5Vdc or 4~20mA
Supply Power	+15 ~ +24Vdc, 350mA≒
Max Operating Pressure	<90 bar
Max Operating Temp	0~50°C
Leak Rate	1×10 ⁻⁹ atm. cc/sec
Control Range	3~100%

Connection	"A" Dimension(mm)
1/8" SW	104.5
1/4" SW	111.9
3/8" SW	115.3
1/4" VCR	107.5

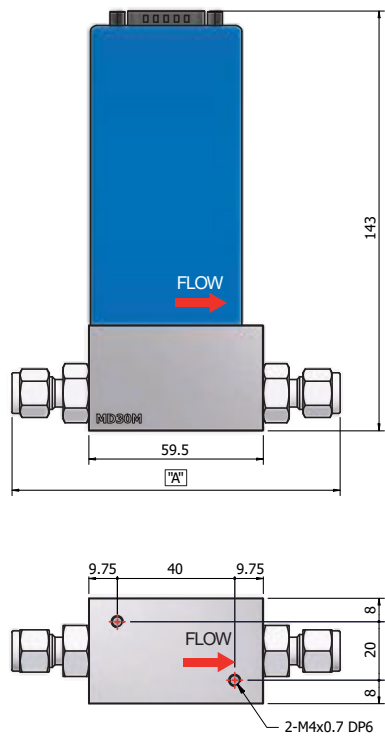
Digital Mass Flow Meter

Features

- Accurate at Low Flow
- Fast Response
- Wide Pressure Range Compatibility
- Excellent Linearity
- Long-Term Stability
- High Corrosion Resistance
- Highly Stable Removable Sensor
- Compact Connection

Digital Communication : [PIN14,15]

- RS -485 Communication
- Baud rate : 38400bps
- Date : 8Bit
- Stop Bite : 1Bit
- Parity : None



MD100C

Digital Mass Flow Controller

Features

- Accurate at Low Flow
- Fast Response
- Wide Pressure Range Compatibility
- Excellent Linearity
- Long-Term Stability
- High Corrosion Resistance
- Highly Stable Removable Sensor
- Compact Connection

Digital Communication : [PIN14,15]

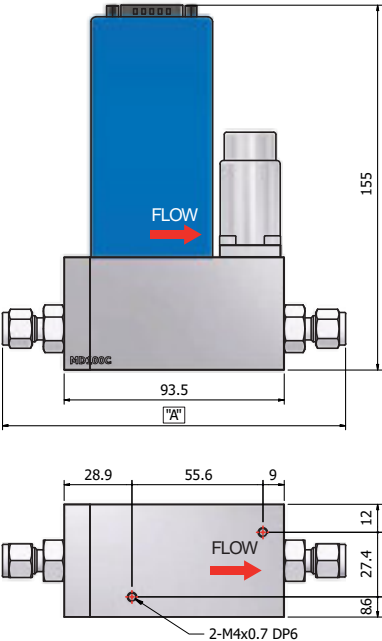
- RS -485 Communication
- Baud rate : 38400bps
- Date : 8Bit
- Stop Bite : 1Bit
- Parity : None



Specifications

Model	MD100C
Range(N2)	30slpm~100slpm
Response Time	<1 sec
Accuracy	±0.25% of FS
Repeatability	±0.25%
In/Out Signal	0~5Vdc or 4~20mA
Supply Power	+15 ~ +24Vdc, 350mA
Max Operating Pressure	<90 bar
Max Operating Temp	0~50°C
Leak Rate	1×10 ⁻⁹ atm. cc/sec
Control Range	3~100%

Connection	"A" Dimension(mm)
1/4" SW	145.9
3/8" SW	149.3
1/2" SW	161.5
1/4" VCR	141.5
1/2" VCR	149



MD100M

Digital Mass Flow Meter

Features

- Accurate at Low Flow
- Fast Response
- Wide Pressure Range Compatibility
- Excellent Linearity
- Long-Term Stability
- High Corrosion Resistance
- Highly Stable Removable Sensor
- Compact Connection

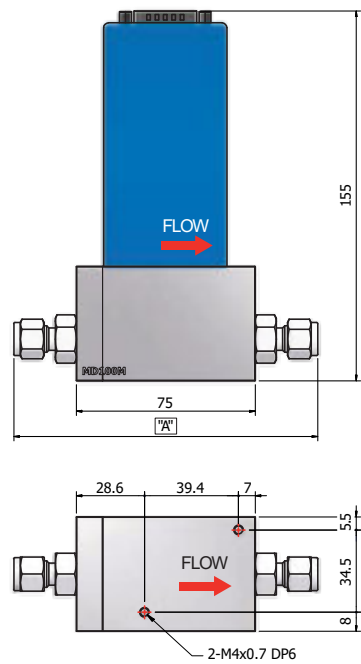
Specifications

Model	MD100M
Range(N2)	30slpm~100slpm
Accuracy	±0.25% of FS
Repeatability	±0.25%
In/Out Signal	0~5Vdc or 4~20mA
Supply Power	+15 ~ +24Vdc, 350mA
Max Operating Pressure	<90 bar
Max Operating Temp	0~50°C
Leak Rate	1×10 ⁻⁹ atm. cc/sec
Control Range	3~100%

Connection	"A" Dimension(mm)
1/4" SW	127.4
3/8" SW	130.8
1/2" SW	143
1/4" VCR	123
1/2" VCR	130.5

Digital Communication : [PIN14,15]

- RS -485 Communication
- Baud rate : 38400bps
- Date : 8Bit
- Stop Bite : 1Bit
- Parity : None



MD400C

Digital Mass Flow Controller

Features

- Accurate at Low Flow
- Fast Response
- Wide Pressure Range Compatibility
- Excellent Linearity
- Long-Term Stability
- High Corrosion Resistance
- Highly Stable Removable Sensor
- Compact Connection

Digital Communication : [PIN14,15]

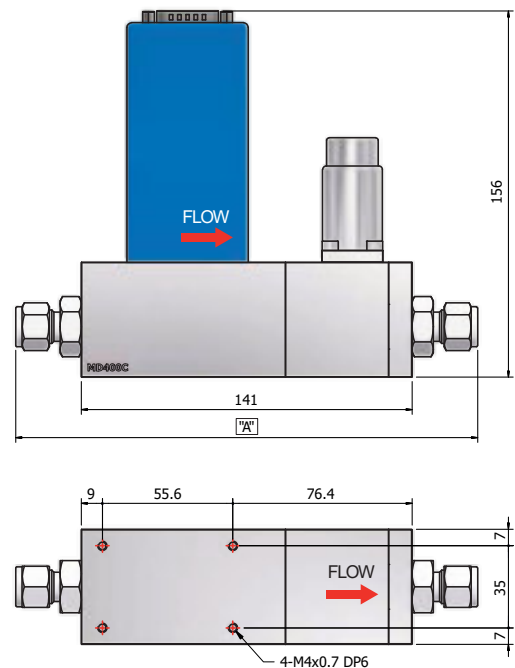
- RS -485 Communication
- Baud rate : 38400bps
- Date : 8Bit
- Stop Bite : 1Bit
- Parity : None



Specifications

Model	MD400C
Range(N2)	100slpm~300slpm
Response Time	<1 sec
Accuracy	±1% of FS
Repeatability	±0.25%
In/Out Signal	0~5Vdc or 4~20mA
Supply Power	+15 ~ +24Vdc, 350mA
Max Operating Pressure	inquiry
Max Operating Temp	0~50°C
Leak Rate	1×10 ⁻⁹ atm. cc/sec
Control Range	3~100%

Connection	"A" Dimension(mm)
3/8"SWG	196.8
1/2"SWG	209
3/4"SWG	210.6
1/2"VCR	196.5



Greater than 40 psig (2.76 bar) inlet pressure required for flows greater than 100 slpm N2 equivalent

MD400M

Digital Mass Flow Meter

Features

- Accurate at Low Flow
- Fast Response
- Wide Pressure Range Compatibility
- Excellent Linearity
- Long-Term Stability
- High Corrosion Resistance
- Highly Stable Removable Sensor
- Compact Connection

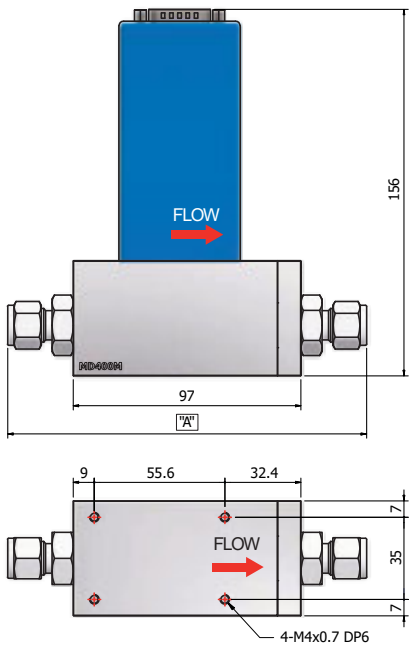
Specifications

Model	MD400M
Range(N2)	100slpm~300slpm
Accuracy	±1% of FS
Repeatability	±0.25%
In/Out Signal	0~5Vdc or 4~20mA
Supply Power	+15 ~ +24Vdc, 350mA
Max Operating Pressure	inquiry
Max Operating Temp	0~50°C
Leak Rate	1×10 ⁻⁹ atm. cc/sec
Control Range	3~100%

Connection	“A” Dimension(mm)
3/8"SWG	152.8
1/2"SWG	165
3/4"SWG	166.6
1/2"VCR	152.5

Digital Communication : [PIN14,15]

- RS -485 Communication
- Baud rate : 38400bps
- Date : 8Bit
- Stop Bite : 1Bit
- Parity : None



Greater than 40 psig (2.76 bar) inlet pressure required for flows greater than 100 slpm N2 equivalent

MD500C

Digital Mass Flow Controller

Features

- Accurate at Low Flow
- Fast Response
- Wide Pressure Range Compatibility
- Excellent Linearity
- Long-Term Stability
- High Corrosion Resistance
- Highly Stable Removable Sensor
- Compact Connection

Digital Communication : [PIN14,15]

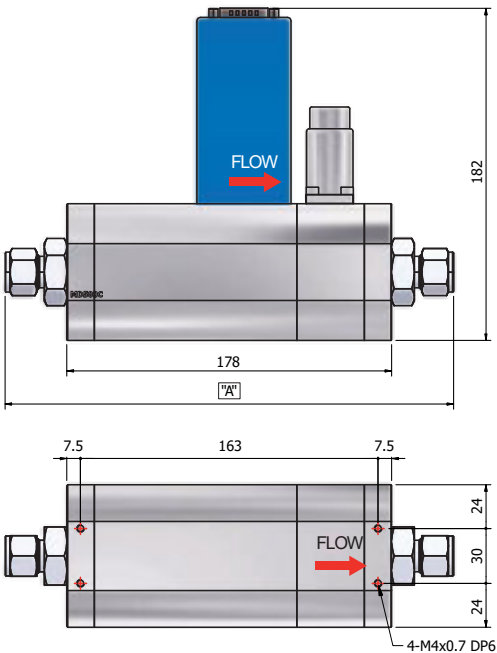
- RS -485 Communication
- Baud rate : 38400bps
- Date : 8Bit
- Stop Bite : 1Bit
- Parity : None



Specifications

Model	MD500C
Range(N2)	300slpm~1000slpm
Response Time	<1 sec
Accuracy	±1% of FS
Repeatability	±0.25%
In/Out Signal	0~5Vdc or 4~20mA
Supply Power	+15 ~ +24Vdc, 350mA
Max Operating Pressure	inquiry
Max Operating Temp	0~50°C
Leak Rate	1×10 ⁻⁹ atm. cc/sec
Control Range	3~100%

Connection	"A" Dimension(mm)
1/2" SW	246
3/4" SW	247.6
1" SW	254.6



Greater than 40 psig (2.76 bar) inlet pressure required for flows greater than 100 slpm N2 equivalent

MD500M

Digital Mass Flow Meter

Features

- Accurate at Low Flow
- Fast Response
- Wide Pressure Range Compatibility
- Excellent Linearity
- Long-Term Stability
- High Corrosion Resistance
- Highly Stable Removable Sensor
- Compact Connection

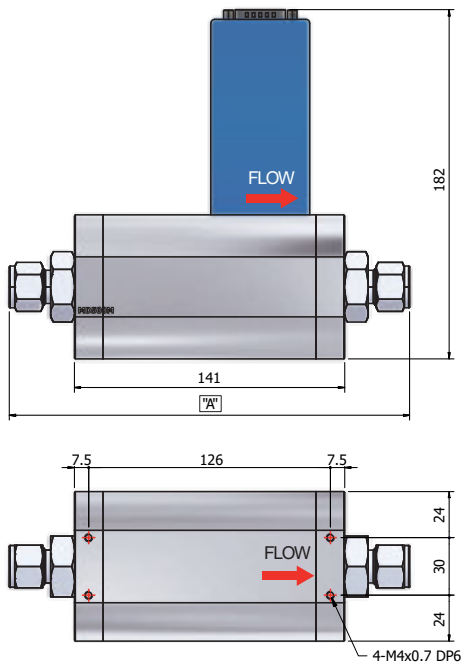
Specifications

Model	MD500M
Range(N2)	300slpm~1000slpm
Accuracy	±1% of FS
Repeatability	±0.25%
In/Out Signal	0~5Vdc or 4~20mA
Supply Power	+15 ~ +24Vdc, 350mA
Max Operating Pressure	inquiry
Max Operating Temp	0~50°C
Leak Rate	1×10 ⁻⁹ atm. cc/sec
Control Range	3~100%

Connection	"A" Dimension(mm)
1/2" SW	209
3/4" SW	210.6
1" SW	217.6

Digital Communication : [PIN14,15]

- RS -485 Communication
- Baud rate : 38400bps
- Date : 8Bit
- Stop Bite : 1Bit
- Parity : None



Greater than 40 psig (2.76 bar) inlet pressure required for flows greater than 100 slpm N2 equivalent

MD600C

Digital Mass Flow Controller

Features

- Accurate at Low Flow
- Fast Response
- Wide Pressure Range Compatibility
- Excellent Linearity
- Long-Term Stability
- High Corrosion Resistance
- Highly Stable Removable Sensor
- Compact Connection

Digital Communication : [PIN14,15]

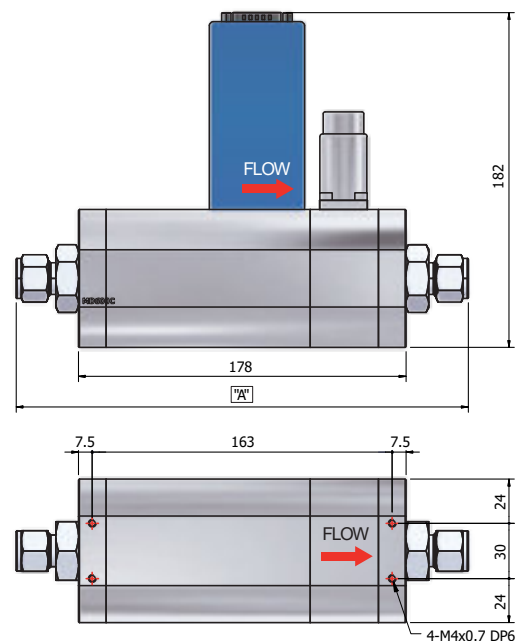
- RS -485 Communication
- Baud rate : 38400bps
- Date : 8Bit
- Stop Bite : 1Bit
- Parity : None



Specifications

Model	MD600C
Range(N2)	1000slpm~1500slpm
Response Time	<1 sec
Accuracy	±1% of FS
Repeatability	±0.25%
In/Out Signal	0~5Vdc or 4~20mA
Supply Power	+15 ~ +24Vdc, 350mA
Max Operating Pressure	inquiry
Max Operating Temp	0~50°C
Leak Rate	1×10 ⁻⁹ atm. cc/sec
Control Range	3~100%

Connection	"A" Dimension(mm)
1/2" SW	246
3/4" SW	247.6
1" SW	254.6



Greater than 40 psig (2.76 bar) inlet pressure required for flows greater than 100 slpm N2 equivalent

MD600M

Digital Mass Flow Meter

Features

- Accurate at Low Flow
- Fast Response
- Wide Pressure Range Compatibility
- Excellent Linearity
- Long-Term Stability
- High Corrosion Resistance
- Highly Stable Removable Sensor
- Compact Connection

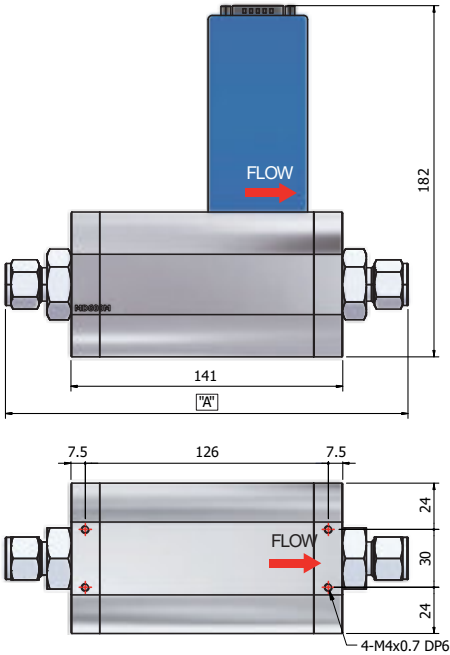
Specifications

Model	MD600M
Range(N2)	1000slpm~1500slpm
Accuracy	±1% of FS
Repeatability	±0.25%
In/Out Signal	0~5Vdc or 4~20mA
Supply Power	+15 ~ +24Vdc, 350mA
Max Operating Pressure	inquiry
Max Operating Temp	0~50°C
Leak Rate	1×10 ⁻⁹ atm. cc/sec
Control Range	3~100%

Connection	"A" Dimension(mm)
1/2" SW	209
3/4" SW	210.6
1" SW	217.6

Digital Communication : [PIN14,15]

- RS -485 Communication
- Baud rate : 38400bps
- Date : 8Bit
- Stop Bite : 1Bit
- Parity : None



Greater than 40 psig (2.76 bar) inlet pressure required for flows greater than 100 slpm N2 equivalent

MD700C

Digital Mass Flow Controller

Features

Accurate at Low Flow
Fast Response
Wide Pressure Range Compatibility
Excellent Linearity
Long-Term Stability
High Corrosion Resistance
Highly Stable Removable Sensor
Compact Connection

Digital Communication : [PIN14,15]

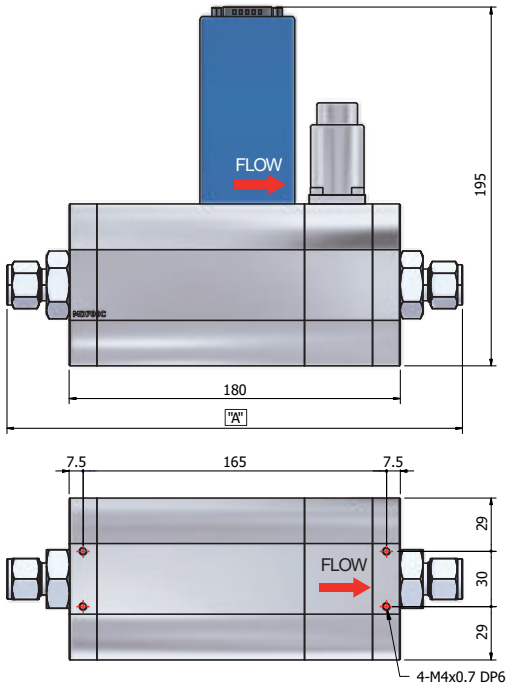
RS -485 Communication
Baud rate : 38400bps
Data : 8Bit
Stop Bite : 1Bit
Parity : None



Specifications

Model	MD700C
Range(N2)	1500slpm~2500slpm
Response Time	<1 sec
Accuracy	±1% of FS
Repeatability	±0.25%
In/Out Signal	0~5Vdc or 4~20mA
Supply Power	+15 or +24Vdc, 350mA
Max Operating Pressure	inquiry
Max Operating Temp	0~50°C
Leak Rate	1×10 ⁻⁹ atm. cc/sec
Control Range	3~100%

Connection	"A" Dimension(mm)
1/2" SW	248
3/4" SW	249.6
1" SW	256.6



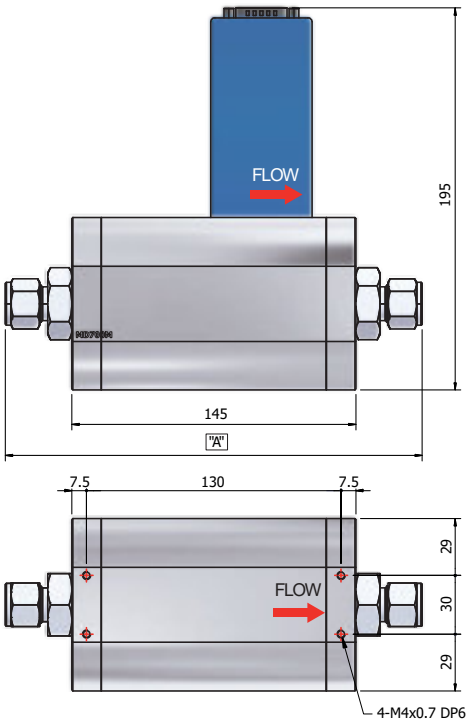
Greater than 40 psig (2.76 bar) inlet pressure required for flows greater than 100 slpm N2 equivalent

MD700M

Specifications

Model	MD700M
Range(N2)	1500slpm~2500slpm
Accuracy	±1% of FS
Repeatability	±0.25%
In/Out Signal	0~5Vdc or 4~20mA
Supply Power	+15 or +24Vdc, 350mA
Max Operating Pressure	inquiry
Max Operating Temp	0~50°C
Leak Rate	1×10 ⁻⁹ atm. cc/sec
Control Range	3~100%

Connection	"A" Dimension(mm)
1/2" SWG	213
3/4" SWG	214.6
1" SWG	221.6



Greater than 40 psig (2.76 bar) inlet pressure required for flows greater than 100 slpm N2 equivalent

Digital Mass Flow Meter

Features

- Accurate at Low Flow
- Fast Response
- Wide Pressure Range Compatibility
- Excellent Linearity
- Long-Term Stability
- High Corrosion Resistance
- Highly Stable Removable Sensor
- Compact Connection

Digital Communication : [PIN14,15]

- RS -485 Communication
- Baud rate : 38400bps
- Date : 8Bit
- Parity : None
- Stop Bite : 1Bit



MD800C

Digital Mass Flow Controller

Features

Accurate at Low Flow
Fast Response
Wide Pressure Range Compatibility
Excellent Linearity
Long-Term Stability
High Corrosion Resistance
Highly Stable Removable Sensor
Compact Connection

Digital Communication : [PIN14,15]

RS -485 Communication
Baud rate : 38400bps
Data : 8Bit
Stop Bite : 1Bit
Parity : None

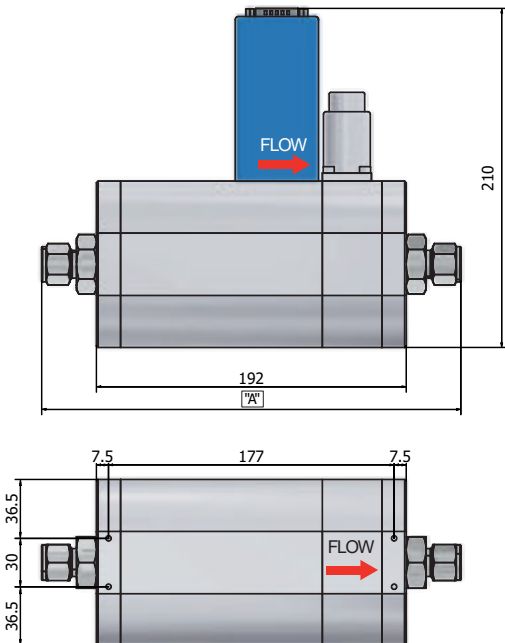


Specifications

Model	MD800C
Range(N2)	2500slpm~5000slpm
Response Time	<1 sec
Accuracy	±1% of FS
Repeatability	±0.25%
In/Out Signal	0~5Vdc or 4~20mA
Supply Power	+15 ~ +24Vdc, 350mA
Max Operating Pressure	inquiry
Max Operating Temp	0~50°C
Leak Rate	1×10 ⁻⁹ atm. cc/sec
Control Range	3~100%

Connection	"A" Dimension(mm)
1/2" SW	257
3/4" SW	259.8
1" SW	267.8

* Please contact us directly for range above 5,000 SLPM



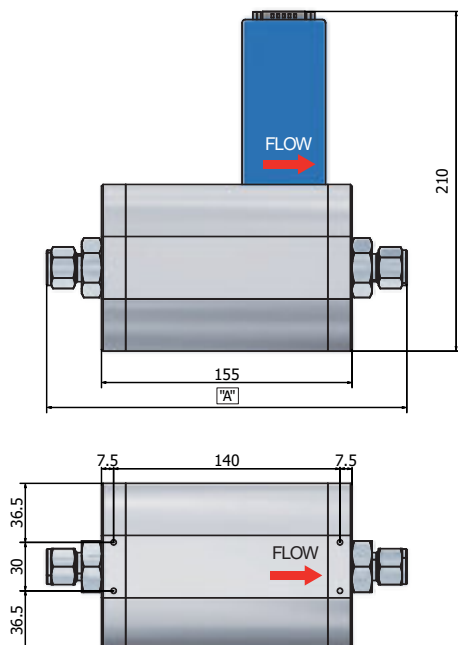
Greater than 40 psig (2.76 bar) inlet pressure required for flows greater than 100 slpm N2 equivalent

Specifications

Model	MD800M
Range(N2)	2500slpm~5000slpm
Accuracy	±1% of FS
Repeatability	±0.25%
In/Out Signal	0~5Vdc or 4~20mA
Supply Power	+15 ~ +24Vdc, 350mA
Max Operating Pressure	inquiry
Max Operating Temp	0~50°C
Leak Rate	1×10 ⁻⁹ atm. cc/sec
Control Range	3~100%

Connection	"A" Dimension(mm)
1/2" SWG	215
3/4" SWG	217
1" SWG	225.8

* Please contact us directly for range above 5,000 SLPM



Greater than 40 psig (2.76 bar) inlet pressure required for flows greater than 100 slpm N2 equivalent

MD800M

Digital Mass Flow Meter

Features

- Accurate at Low Flow
- Fast Response
- Wide Pressure Range Compatibility
- Excellent Linearity
- Long-Term Stability
- High Corrosion Resistance
- Highly Stable Removable Sensor
- Compact Connection

Digital Communication : [PIN14,15]

- RS -485 Communication
- Baud rate : 38400bps
- Date : 8Bit
- Parity : None
- Stop Bite : 1Bit



Authorised Distributor



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W: www.mtsengineers.com

Digital Product Features



The MD-Series is the digital variant of the M-Series and has seen a strong improvement in its performance. It is compatible with a wide range of pressure / temperature conditions and prides itself on its fast response and high repeatability. Time and time again, our customers have sought this series for reliable mass flow measurement and control for a variety of application purposes.

- **Wide Range** : Flow rate range from 0.01 to 5,000 SLPM* available for all your application needs
- **Accurate** : 8-Point calibration to ensure high degree of accuracy and linearity (± 0.25 % FS error rate)
- **Dependable** : Reliable performance with repeatability at ± 0.25 % for long-term application
- **Responsive** : Selectable response time between 0.5 to 1 seconds for your ideal application
- **Flexible** : Compatible with wide range of temperature (0 ~ 50 Celcius) and pressure (< 90 bar) conditions
- **Durable** : High corrosion resistance and sturdy build for long-term handling and usage

Note

* Please contact us directly for range above 5,000 SLPM