

Digital Product



Digital Mass Flow Controller Specifications

MODEL	Full Scale N2 (slpm)	Accuracy (%FS)	Repeatability (%)	Response Time(sec)	Digital Communication	IN/Out Signal (Vdc/mA)	Supply Power (Vdc)	Max Operating Pressure	Max Operating Temp(° C)
HA30C	0.01~30	± 0.25	± 0.25	< 1	RS 485	0~5 or 4~20	±15~24	< 90 bar	0~50
HA100C	30~100	± 0.25	± 0.25	< 1	RS 485	0~5 or 4~20	±15~24	< 90 bar	0~50
HA300C	100~300	± 1.0	± 0.25	< 1	RS 485	0~5 or 4~20	±15~24	< 13 bar	0~50
HA1000C	300~1000	± 1.0	± 0.25	< 1	RS 485	0~5 or 4~20	±15~24	< 13 bar	0~50
HA1500C	1000~1500	± 1.0	± 0.25	< 1	RS 485	0~5 or 4~20	±15~24	< 13 bar	0~50
HA2500C	1500~2500	± 1.0	± 0.25	< 1	RS 485	0~5 or 4~20	±15~24	< 13 bar	0~50
HA5000C	2500~5000	± 1.0	± 0.25	< 1	RS 485	0~5 or 4~20	±15~24	< 13 bar	0~50

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

Digital Mass Flow Meter Specifications

MODEL	Full Scale N2 (slpm)	Accuracy (%FS)	Repeatability (%)	Digital Communication	IN/Out Signal (Vdc/mA)	Supply Power (Vdc)	Max Operating Pressure	Max Operating Temp(° C)
HA30M	0.01~30	± 0.25	± 0.25	RS 485	0~5 or 4~20	±15~24	< 90 bar	0~50
HA100M	30~100	± 0.25	± 0.25	RS 485	0~5 or 4~20	±15~24	< 90 bar	0~50
HA300M	100~300	± 1.0	± 0.25	RS 485	0~5 or 4~20	±15~24	< 90 bar	0~50
HA1000M	300~1000	± 1.0	± 0.25	RS 485	0~5 or 4~20	±15~24	< 90 bar	0~50
HA1500M	1000~1500	± 1.0	± 0.25	RS 485	0~5 or 4~20	±15~24	< 90 bar	0~50
HA2500M	1500~2500	± 1.0	± 0.25	RS 485	0~5 or 4~20	±15~24	< 90 bar	0~50
HA5000M	2500~5000	± 1.0	± 0.25	RS 485	0~5 or 4~20	±15~24	< 90 bar	0~50

HA-30M Mass Flow Meter



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

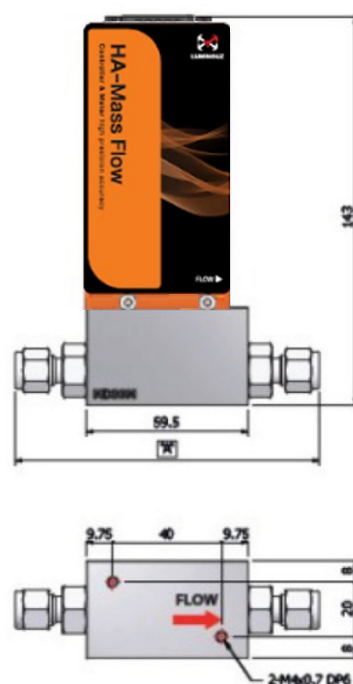
Digital Communication : [PIN14,15]

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

Specifications

Model	HA-30M
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	1x10 ⁻⁹ atm.cc/sec
Control Range	3~100%

Connection	"A" Dimension(mm)
1/8" SWG	106.2
1/4" SWG	110.8
3/8" SWG	113.8
1/4" VCR	107.5



HA-100M Mass Flow Meter



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

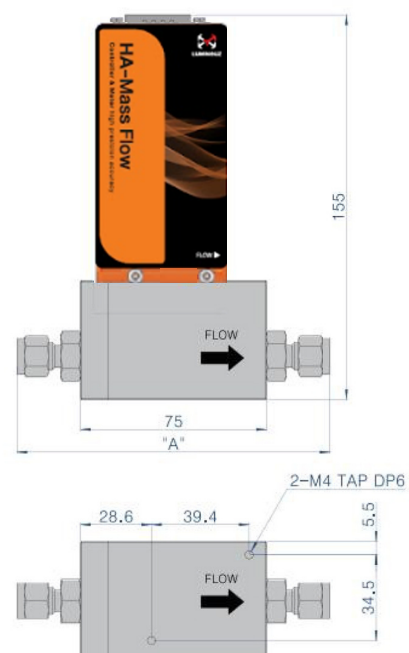
Digital Communication : [PIN14,15]

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

Specifications

Model	HA-100M
Range(N2)	30slpm~100slpm
Accuracy	$\pm 0.25\%$ of FS
Repeatability	$\pm 0.25\%$
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" SWG	126.3
3/8" SWG	129.3
1/2" SWG	133.4
1/4" VCR	123
1/2" VCR	130.5



HA-300M Mass Flow Meter



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

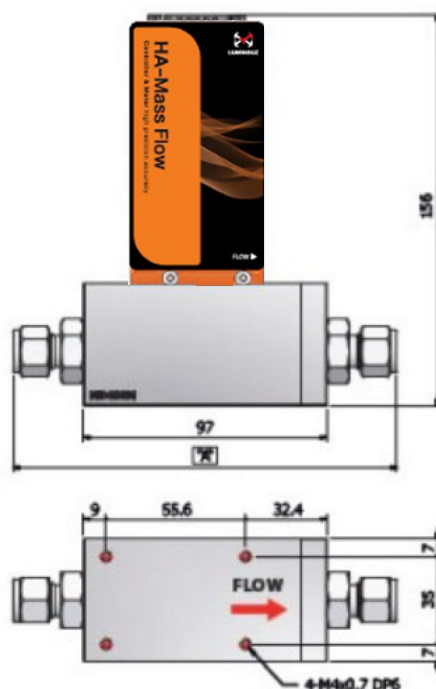
Digital Communication : [PIN14,15]

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

Specifications

Model	HA-300M
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	< 90 bar
Max Operating Temp	0~50° C
Leak Rate	1x10 ⁻⁹ atm.cc/sec
Control Range	3~100%

Connection	"A" Dimension(mm)
3/8" SWG	152.8
1/2" SWG	158.4
3/4" SWG	166.6
1/2" VCR	152.5



HA-1000M Mass Flow Meter



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

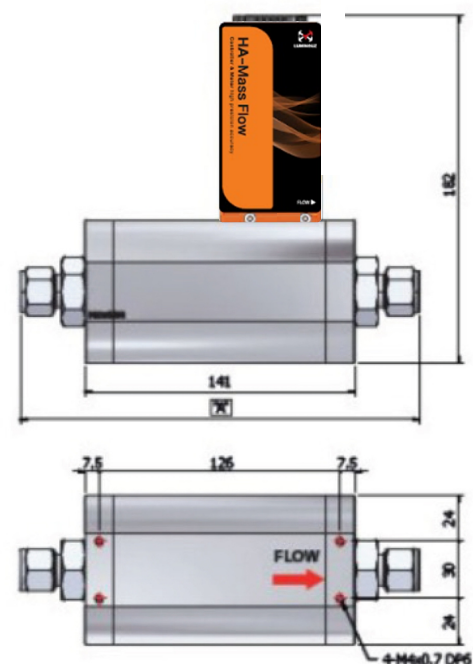
Digital Communication : [PIN14,15]

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

Specifications

Model	HA-1000M
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	< 90 bar
Max Operating Temp	0~50° C
Leak Rate	1x10 ⁻⁹ atm.cc/sec
Control Range	3~100%

Connection	"A" Dimension(mm)
1/2" SWG	209.7
3/4" SWG	209.7
1" SWG	217.6



HA-1500M Mass Flow Meter



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

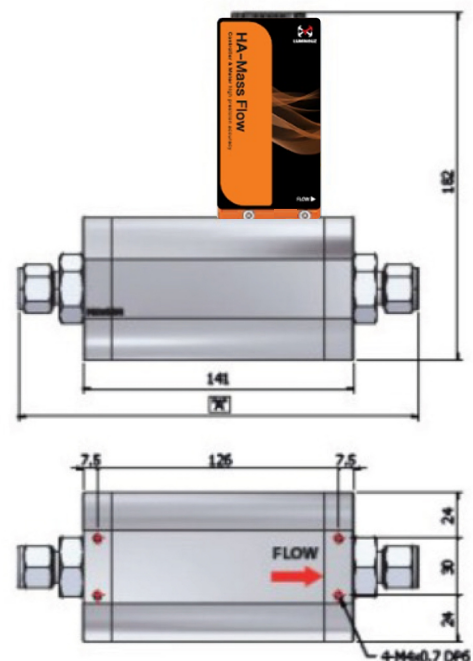
Digital Communication : [PIN14,15]

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

Specifications

Model	HA-1500M
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	< 90 bar
Max Operating Temp	0~50° C
Leak Rate	1x10 ⁻⁹ atm.cc/sec
Control Range	3~100%

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



HA-2500M Mass Flow Meter



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

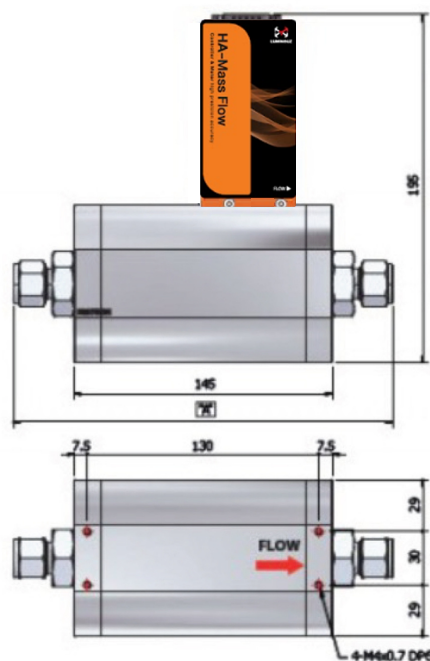
Digital Communication : [PIN14,15]

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

Specifications

Model	HA-2500M
Range(N2)	1500slpm~2500slpm
Accuracy	± 1% 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	1x10 ⁻⁹ atm.cc/sec
Control Range	3~100%

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



HA-5000M Mass Flow Meter



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]

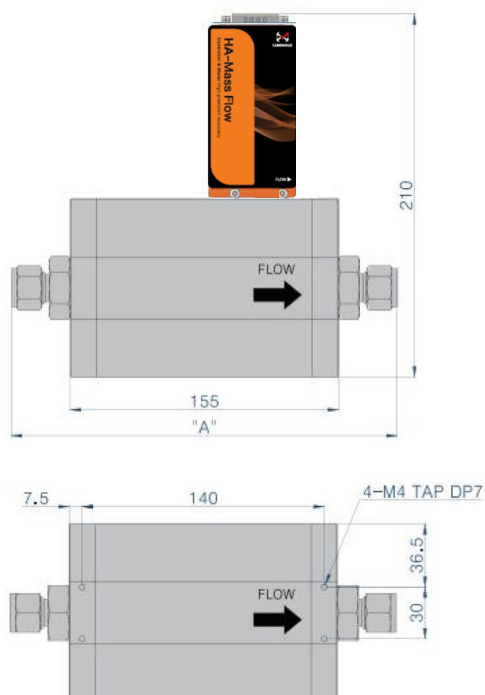
RS - 485 Communication
Baud rate : 38400bps
Date : 8 Bit
Stop Bite : 1 Bit
Parity : None

Specifications

Model	HA-5000M
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	< 90 bar
Max Operating Temp	0~50° C
Leak Rate	1x10 ⁻⁹ atm.cc/sec
Control Range	3~100%

Connection	"A" Dimension(mm)
3/4" SWG	223
1" SWG	231.7

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



HA-30C Mass Flow Controller



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

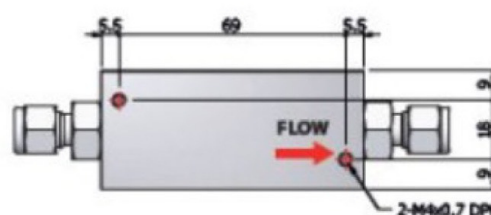
Digital Communication : [PIN14,15]

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

Specifications

Model	HA-30C
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	1x10 ⁻⁹ atm.cc/sec
Control Range	3~100%

Connection	"A" Dimension(mm)
1/8" SWG	126.7
1/4" SWG	131.3
3/8" SWG	134.3
1/4" VCR	127.8



HA100C Mass Flow Controller



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

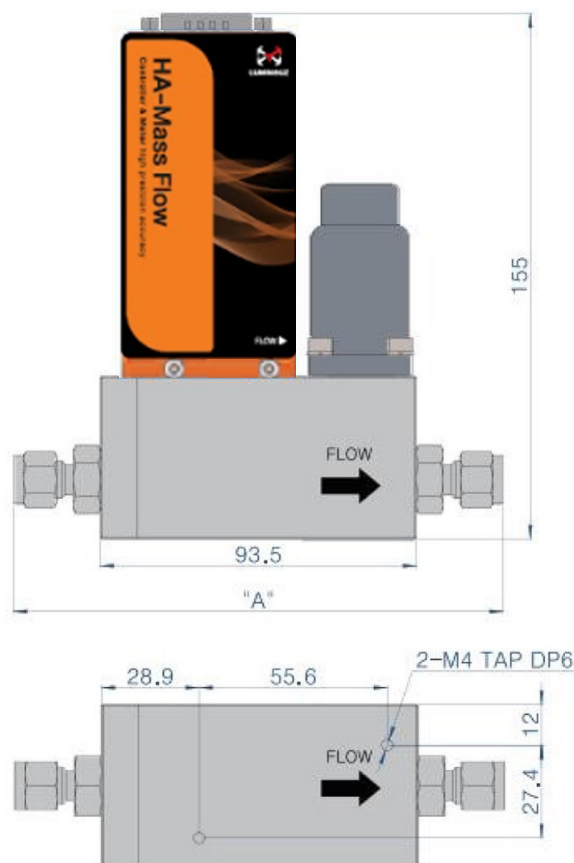
Digital Communication : [PIN14,15]

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

Specifications

Model	HA-100C
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	1x10 ⁻⁹ atm.cc/sec
Control Range	3~100%

Connection	"A" Dimension(mm)
1/4" SWG	144.8
3/8" SWG	147.8
1/2" SWG	151.9
1/4" VCR	141.5
1/2" VCR	149



HA-300C Mass Flow Controller



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

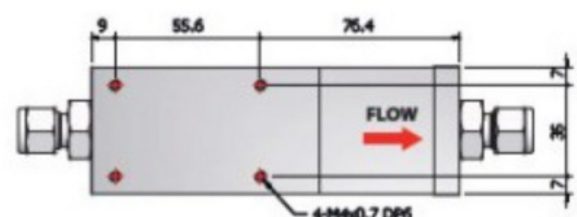
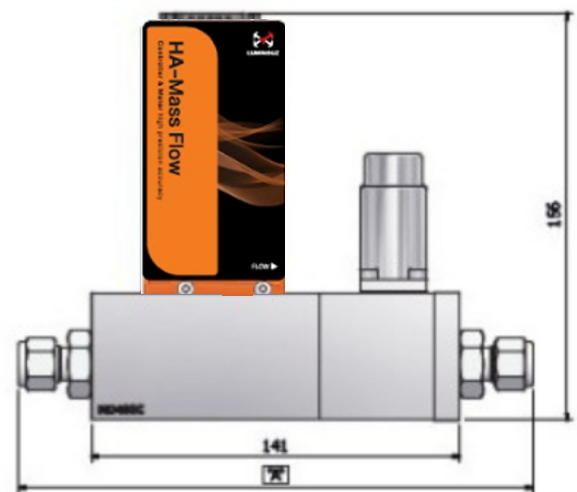
Digital Communication : [PIN14,15]

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

Specifications

Model	HA-300C
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	< 13 bar
Max Operating Temp	0~50° C
Leak Rate	1x10 ⁻⁹ atm.cc/sec
Control Range	3~100%

Connection	"A" Dimension(mm)
3/8" SWG	196.8
1/2" SWG	202.4
3/4" SWG	210.6
1/2" VCR	196.5



HA-1000C Mass Flow Controller



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

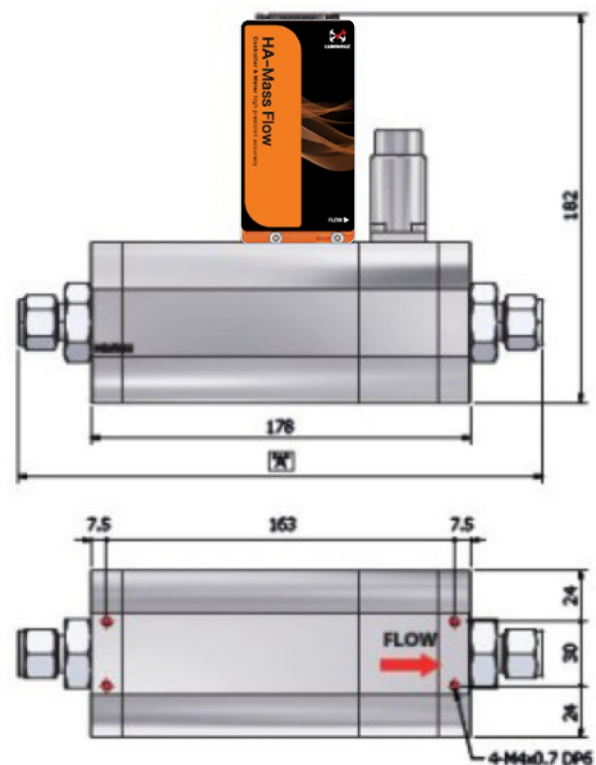
Digital Communication : [PIN14,15]

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

Specifications

Model	HA-1000C
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	< 13 bar
Max Operating Temp	0~50° C
Leak Rate	1x10 ⁻⁹ atm.cc/sec
Control Range	3~100%

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



HA-1500C Mass Flow Controller



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

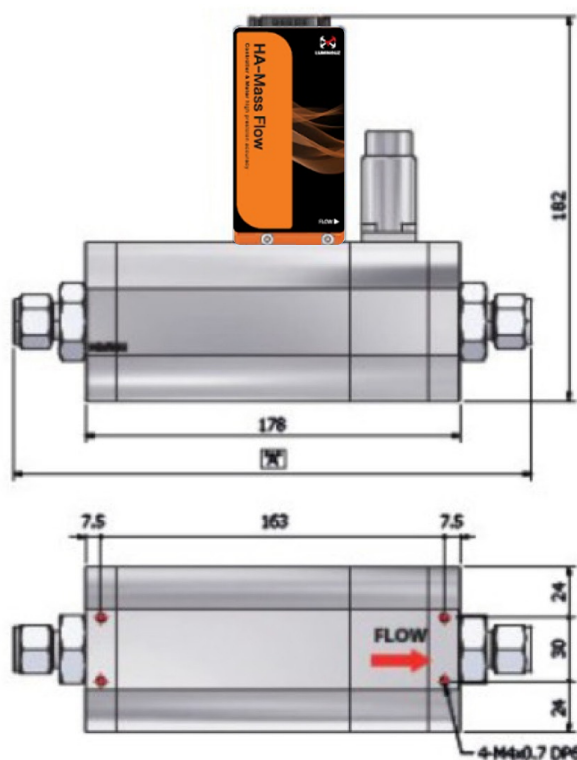
Digital Communication : [PIN14,15]

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

Specifications

Model	HA-1500C
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	< 13 bar
Max Operating Temp	0~50° C
Leak Rate	1x10 ⁻⁹ atm.cc/sec
Control Range	3~100%

Connection	"A" Dimension(mm)
1/2" SWG	209.7
3/4" SWG	246
1" SWG	254.6



HA-2500C Mass Flow Controller



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

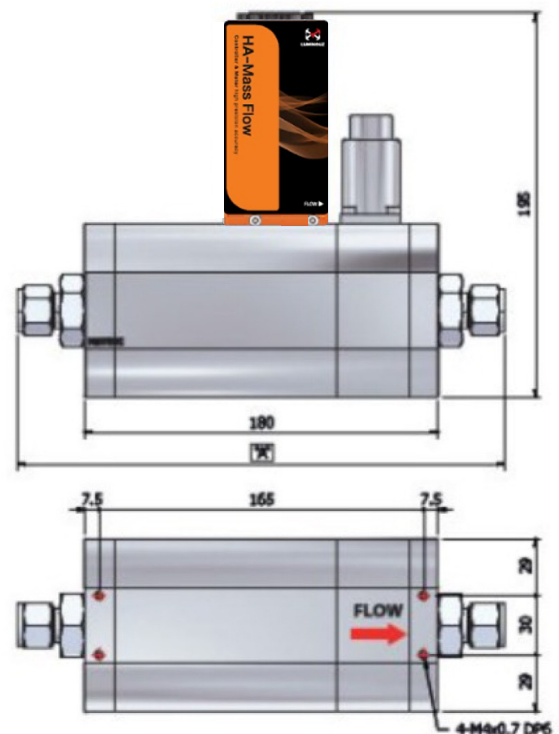
Digital Communication : [PIN14,15]

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

Specifications

Model	HA-2500C
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~ +24Vdc, 350mA
Max Operating Pressure	< 13 bar
Max Operating Temp	0~50° C
Leak Rate	1x10 ⁻⁹ atm.cc/sec
Control Range	3~100%

Connection	"A" Dimension(mm)
3/4" SWG	248
1" SWG	256.6



HA-5000C Mass Flow Controller



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]

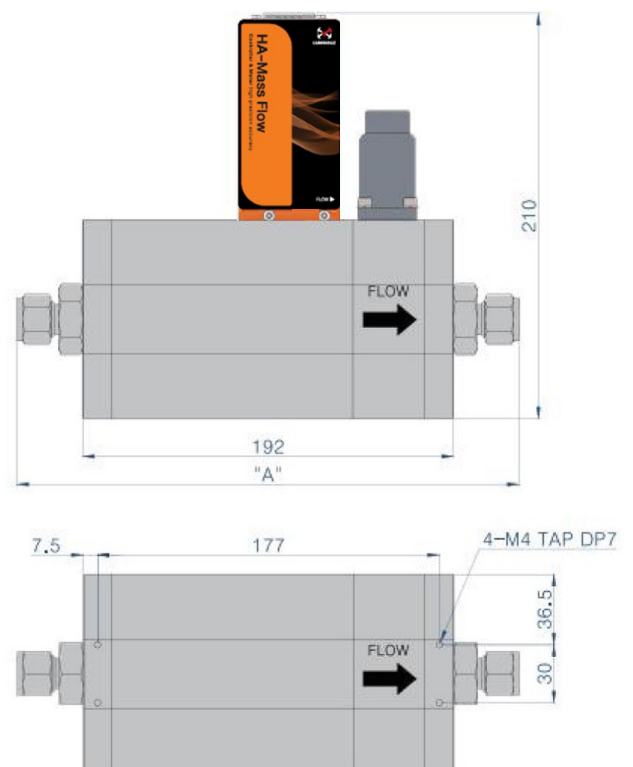
RS - 485 Communication
Baud rate : 38400bps
Data : 8 Bit
Stop Bite : 1 Bit
Parity : None

Specifications

Model	HA-5000C
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	< 13 bar
Max Operating Temp	0~50° C
Leak Rate	1x10 ⁻⁹ atm.cc/sec
Control Range	3~100%

Connection	"A" Dimension(mm)
3/4" SWG	223
1" SWG	231.7

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



Model chart

Model AN-2-30C-A-14-E-N

