BMS 1000 Electromagnetic Flowmeter

GENERAL

BMS 1000 Series is a flange type Electromagnetic Flowmeter ideal for conductive liquids. It comes in sizes from 6 to 2000mm.

The BMS1000 is widely used for tap-water, waste water, food & beverage Pulp & Paper and many other applications.

BMS1000 Series magmeter could be used in compact or separate model with BMC Series converter of electromagnetic Flowmeter.

FEATURES

- Various liner can be selected that satisfies most industrial applications
- Flow Velocity range:0-12 m/s, with good results for low flow applications
- It comes any flanges such as ,ANSI, DIN, JIS... Etc
- It excellent for high pressure application
- Protection class: IP68 is available, and the sensor can sink into the water
- FEP Liner suitable in vacuum tube
- High accuracy of +/-0.5% of reading(or+/-0.2% of reading)
- With Forward/Reverse flowrate measure function

SPECIFICATION

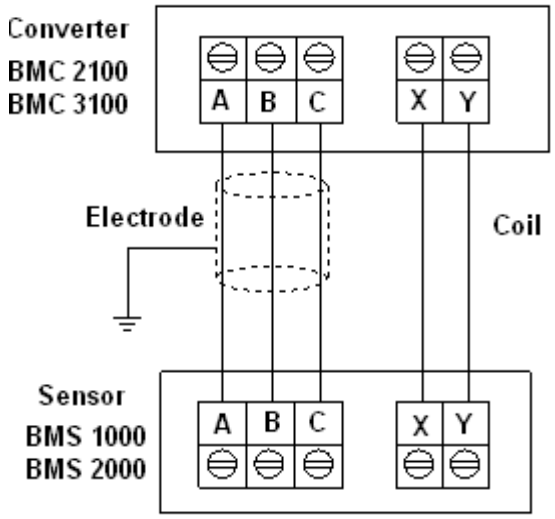
- Size : 6,10,15,20, 25,32,40,50,65,80,100,125
  150,200,250,300,350,400,450,500,600
  700,800,900,1000,1200,1400,1600
  1800,2000 mm
- Measuring Range : Velocity 0 - 0.25 m/s min.
  0 - 12 m/s max.
- Material
  - Measuring Tube : Stainless Steel 304
  - Flange : Carbon Steel (standard)
  - : Stainless Steel 304(Option)
  - : Stainless Steel 316(Option)
  - Coil Housing : Carbon Steel (standard)
  - : Stainless Steel 304(Option)
  - : Stainless Steel 316(Option)
- Liner : Polyurethane(25-600 mm)
  : Neoprene(50-2000 mm)
  : FEP(6-300 mm)
  : PTFE(25-800 mm)
  : PFA(6-300 mm)
- Protection : IP 68
  : IP 68 (Submersible)
- Conductivity : to be more then 5 uS/cm
- Explosion Proof : Exd(ib)ibqIIBT5
  (with BMC3100 only)
- Electrode & Grounding : Stainless Steel 316L
  : Hastelloy B
  : Hastelloy C
  : Titanium
  : Tantalum
  : Platinum
  : Tungsten Carbide
- Cable Entry : 2 X PG11
- Ambient Temperature : -25 to +60 Deg. C
- Process Connection : Flange
- Flanges Type : JIS 10K / JIS 20K / JIS 40K
  ANSI 150# / ANSI 300# / ANSI 600#
  DIN PN 10 / PN 16 / PN25 / PN 40
- Grounding Resistance : Must be less then 10 Ω
- Accuracy : +/-0.5% of reading (Velocity>=0.5 m/s)
  : +/-0.0025 m/s (Velocity < 0.5 m/s)
  : +/-0.2% of Reading
  (suitable for BMC3100 Converter only)
- Temperature : -10 ~ +60°C (Polyurethane)
  : -20 ~ +70°C (Neoprene)
  : -40 ~ +180°C (FEP)
  : -40 ~ +180°C (PTFE)
- Max. Pressure : 350 Kg/cm2

FLOW RANGE

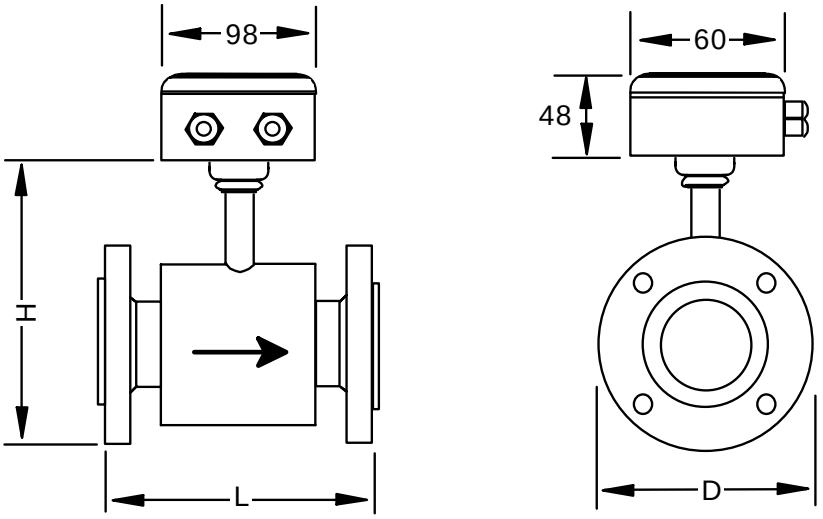
Unit: M3/Hr

Normal Size		Flow Range & Velocity Table						
mm	Inch	Min. 0 - 0.25M/S	1.0 M/S	2.0 M/S	3.0 M/S	5.0 M/S	10.0 M/S	Max. 0 - 12 M/S
6	1/4"	0 to 0.025	0.10	0.20	0.31	0.51	1.02	0 to 1.22
10	3/8"	0 to 0.071	0.28	0.57	0.85	1.41	2.83	0 to 3.39
15	1/2"	0 to 0.16	0.64	1.27	1.91	3.18	6.36	0 to 7.63
20	3/4"	0 to 0.28	1.13	2.26	3.39	5.65	11.3	0 to 13.6
25	1"	0 to 0.44	1.77	3.53	5.30	8.84	17.7	0 to 21.2
32	1-1/4"	0 to 0.72	2.90	5.79	8.69	14.5	29.0	0 to 34.7
40	1-1/2"	0 to 1.13	4.52	9.05	13.6	22.6	45.2	0 to 54.3
50	2"	0 to 1.77	7.07	14.1	21.2	35.3	70.7	0 to 84.8
65	2-1/2"	0 to 2.99	11.9	23.9	35.8	59.7	119	0 to 143
80	3"	0 to 4.52	18.1	36.2	54.3	90.5	181	0 to 217
100	4"	0 to 7.07	28.3	56.5	84.8	141.4	283	0 to 339
125	5"	0 to 11.0	44.2	88.4	133	220.9	442	0 to 530
150	6"	0 to 15.9	63.6	127	191	318.1	636	0 to 763
200	8"	0 to 28.3	113	226	339	565.5	1131	0 to 1357
250	10"	0 to 44.2	177	353	530	883.6	1767	0 to 2121
300	12"	0 to 63.6	254	509	763	1272	2545	0 to 3054
350	14"	0 to 86.6	346	693	1039	1732	3464	0 to 4156
400	16"	0 to 113	452	905	1357	2262	4524	0 to 5429
450	18"	0 to 143	573	1145	1718	2863	5725	0 to 6871
500	20"	0 to 177	707	1414	2121	3534	7068	0 to 8482
600	24"	0 to 254	1018	2036	3054	5089	10179	0 to 12214
700	28"	0 to 346	1385	2771	4156	6927	13854	0 to 16625
800	32"	0 to 452	1810	3619	5429	9048	18095	0 to 21714
900	36"	0 to 573	2290	4580	6871	11451	22902	0 to 27482
1000	40"	0 to 707	2827	5655	8482	14137	28274	0 to 33928
1200	48"	0 to 1018	4071	8143	12214	20357	40714	0 to 48857
1400	56"	0 to 1385	5542	11083	16625	27708	55417	0 to 66500
1600	64"	0 to 1810	7238	14476	21714	36190	72381	0 to 86857
1800	72"	0 to 2290	9161	18321	27482	45803	91607	0 to 109928
2000	80"	0 to 2827	11309	22619	33928	56547	113095	0 to 135714

ELECTRICAL CONNECTION



DIMENSIONS



Size	Standard Pressure	Liner Material				Dimensions (mm)			Weight
(mm)	Kg/cm2	FEP / PFA	Neoprene	Polyurethane	PTFE	L	D	H	Kg
6	40	◎				150	90	145	4.0
10		◎							4.0
15		◎					95	155	4.5
20		◎					105	160	5.1
25		◎		◎	◎		115	166	5.5
32		◎		◎	◎		140	180	7.0
40		◎		◎	◎		150	190	7.7
50		◎	◎	◎	◎	200	165	201	9.5
65		◎	◎	◎	◎		185	220	11.5
80		◎	◎	◎	◎		200	235	13
100	16	◎	◎	◎	◎	250	220	254	16
125		◎	◎	◎	◎		250	284	20.5
150		◎	◎	◎	◎	300	285	314	27
200	10	◎	◎	◎	◎	350	340	369	44.5
250		◎	◎	◎	◎	400	395	430	53
300		◎	◎	◎	◎	450	445	480	71.5
350			◎	◎	◎		505	540	75.2
400			◎	◎	◎	500	565	600	99
450			◎	◎	◎	550	615	640	207
500			◎	◎	◎	600	670	700	237
600			◎	◎	◎		780	800	318
700			◎		◎	700	895	910	358
800			◎		◎	800	1015	1020	408
900			◎			900	1115	1120	457
1000			◎			1000	1230	1230	610
1200	6		◎			1200	1405	1450	1460
1400			◎			1400	1630	1560	2730
1600			◎			1600	1830	1770	3460
1800			◎			1800	2045	2040	4860
2000			◎			2000	2265	2250	5800

Note: ◎ Standard

Weight & Dimension D & H only for DIN flange

Model Selection Guide

BMS1000 Series										
Example:BMS1000-P1000-BAN80-C-N										
BMS1000-	X	XXXX-	X	X	X	X	X-	XXX-	X	Description
Liner	N									Chloroprene Rubber(Neoprene)(50 ~ 2000mm, 2" ~ 80")
	F									FEP (6 ~ 300mm, 1/4" ~ 12")
	P									PTFE (25 ~ 800mm, 1" ~ 32")
	A									PFA (6 ~ 300mm, 1/4" ~ 12")
	O									Polyurethane (25 ~ 600mm, 1" ~ 24")
Size		6 ~ 2000								6 ~ 2000mm
Electrode Material			-S							Stainless Steel 316L
			-T							Titanium
			-B							Has. B
			-C							Has. C
			-A							Tantalum
			-P							Platinum
			-U							Tungsten Carbide
			-Z							Others
Connection				1						PN10
				2						PN16
				3						PN25
				4						PN40
				A						ANSI 150 #
				B						ANSI 300 #
				C						ANSI 600 #
				J						JIS 10K
				K						JIS 20K
				L						JIS 40K
				Z						Others
Grounding					N					None
					E					Grounding Electrode 3 Electrode)
					R					Grounding Ring (S.S.316)
					A					Grounding & Protection Ring (S.S.316)
					Z					Others
Protection						8				IP68
						9				IP68 (Submersible, separate with converter only)
Flange & Housing							0-			Carbon Steel (standard)
							4-			S.S.304 Flange
							6-			S.S.316 Flange
							8-			S.S.304 Flange & Housing
							9-			S.S.316 Flange & Housing
Installation & Cable length								C		Compact version
								010~300		Separate version, Cable 10M ~ 300M
Option									-N	None
									-X	Explosion Proof,Exd(ib)ibqIIBT5 (with BMC3100 only)
									-T1	Pressure higher then standard
									-T2	Max. Temp. higher then 120°C

BMS 2000 Electromagnetic Flowmeter

GENERAL

BMS 2000 Series is a wafer type electromagnetic Flowmeter ideal for conductive liquids. It comes in sizes from 25 to 200 mm. The BMS2000 is widely used for tap-water, waste water, food & beverage, Pulp & Paper and many other applications.

BMS2000 Series electromagnetic flowmeter could be used in compact or separate model with BMC Series converter of electromagnetic Flowmeter.

FEATURES

- Light and compact version
- Flow Velocity range:0-12 m/s, with good results for low flow applications
- It comes any flanges such as ANSI, DIN, JIS... etc
- It excellent for high pressure application
- Protection class: IP68 is available, and the sensor can sink into the water
- FEP Liner suitable in vacuum tube
- High accuracy of +/-0.5% of reading.(or+/-0.2% of reading)
- With Forward/Reverse flow measure function

SPECIFICATION

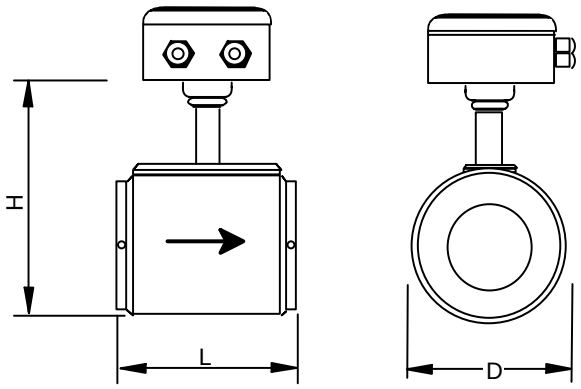
- Size : 25,32,40,50,65,80,100,125,150,200
- Measuring Range : Velocity 0-0.25 m/s min.
  0-12 m/s max.
- Material
  - Measuring Tube : Stainless Steel 304
  - Coil Housing : Carbon Steel (standard)
  - : Stainless Steel 304(Option)
  - : Stainless Steel 316(Option)
- Liner : FEP
- Protection : IP 68
  : IP 68(Submersible)
- Conductivity : to be more then 5 uS/cm
- Electrode & Grounding : Stainless Steel 316L
  : Hastelloy B
  : Hastelloy C
  : Titanium
  : Tantalum
  : Tungsten Carbide
  : Platinum
- Cable Entry : 2 X PG11
- Ambient Temperature : -25 to +60 ℃
- Process Connection : Wafer
- Flanges type : JIS 10K / JIS 20K / JIS 40K
  ANSI 150# / ANSI 300# / ANSI 600#
  DIN PN 10 / PN 16 / PN25 / PN 40
- Grounding Resistance : Must be less then 10 Ω
- Accuracy : +/-0.5% of reading (Velocity>=0.5 m/s)
  : +/-0.2% of Reading
  (suitable for BMC3100 Converter only)
  : +/-0.0025 m/s (Velocity < 0.5 m/s)
- Temperature : -40 to +180 ℃
- Max. Pressure : 16 Kg/cm2 (standard)
  : 40 Kg/cm2(option)
- Explosion Proof : Exd(ib)ibqIIBT5
  (with BMC3100 only)

FLOW RANGE

Unit: M^3/Hr

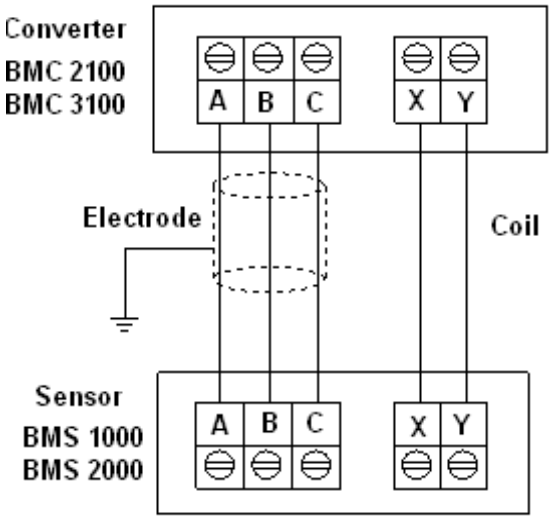
Normal Size		Flow Range & Velocity Table						
mm	Inch	Min. 0 - 0.25M/S	1.0 M/S	2.0 M/S	3.0 M/S	5.0 M/S	10.0 M/S	Max. 0 - 12 M/S
25	1"	0 to 0.44	1.77	3.53	5.30	8.84	17.7	0 to 21.2
32	1-1/4"	0 to 0.72	2.90	5.79	8.69	14.5	29.0	0 to 34.7
40	1-1/2"	0 to 1.13	4.52	9.05	13.6	22.6	45.2	0 to 54.3
50	2"	0 to 1.77	7.07	14.1	21.2	35.3	70.7	0 to 84.8
65	2-1/2"	0 to 2.99	11.9	23.9	35.8	59.7	119	0 to 143
80	3"	0 to 4.52	18.1	36.2	54.3	90.5	181	0 to 217
100	4"	0 to 7.07	28.3	56.5	84.8	141	283	0 to 339
125	5"	0 to 11.0	44.2	88.4	133	221	442	0 to 530
150	6"	0 to 15.9	63.6	127	191	318	636	0 to 763
200	8"	0 to 28.3	113	226	339	565	1131	0 to 1357

DIMENSIONS



Size		Dimensions (mm)			Weight
mm	Inch	L	D	H	Kg
25	1"	90	71	142	3.5
32	1-1/4"	100	76	152	4
40	1-1/2"		86	160	4.6
50	2"	115	96	175	5.2
65	2-1/2"		115	195	6.4
80	3"	130	130	210	7.4
100	4"	155	151	230	8.9
125	5"		181	260	10.6
150	6"	185	206	285	13
200	8"	215	261	340	19.8

ELECTRICAL CONNECTION



MODEL SELECTION GUIDE

BMS2000 Series								
Example:BMS2000-080-CE80-050-N								
BMS2000-	XXX-	X	X	X	X-	XXX-	X	Description
Size	025 ~ 200							25 ~ 200mm
Electrode Material		-S						Stainless Steel 316L
		-T						Titanium
		-B						Has. B
		-C						Has. C
		-A						Tantalum
		-P						Platinum
		-U						Tungsten Carbide
		-Z						Others
Grounding			N					None
			E					Grounding Electrode (3 Electrode)
			R					Grounding Ring (S.S.316)
			A					Grounding & Protection Ring (S.S.316)
Protection				8				IP68
				9				IP68 (Submersible, separate with converter only)
Housing Material					0-			Carbon Steel (standard)
					8-			S.S.304 Housing
					9-			S.S.316 Housing
Installation & Cable length						C		Compact version
						010~300		Separate version, Cable 10M ~ 300M
Option							-N	None
							-X	Explosion Proof,Exd(ib)ibqIIBT5 (withBMC3100 only)
							-P	Pressure higher then standard
							-T	Max. Temp. higher then 120°C

BMS 6000 Electromagnetic Flowmeter

GENERAL

BMS 6000 Series is a sanitary type electromagnetic Flowmeter ideal for conductive liquids. It comes in sizes from 2.5 to 40 mm.

The BMS 6000 is widely used for tap-water, waste water, food & beverage, Pulp & Paper and many other industrial fluid.

BMS 6000 Series electromagnetic flowmeter could be used in compact or separate model with BMC Series converter of electromagnetic Flowmeter.

FEATURES

- Light and compact version
- Flow Velocity range:0-12 m/s, with precisely measure for low flow applications
- Interface thread piping
- FEP Liner is suit for vacuum tube
- High accuracy of +/-0.4% value of reading (or+/-0.2% value of reading)
- With Forward/Reverse flowrate measure function

SPECIFICATION

- Size : 2.5 , 5 , 10 , 15 , 20 , 25 , 32 , 40 mm
- Measuring Range : Velocity 0-0.25 m/s min.
  0-12 m/s max.
- Material
  - Tube & Connection : Stainless Steel 304
  - Coil Housing : PVC
  - Liner : FEP
  - Electrode : Stainless Steel 316L
  - : Titanium
  - : Hastelloy B
  - : Hastelloy C
  - : Tantalum
  - : Platinum
  - : Tungsten Carbide
- Flow Range
  - 2.5 mm (1/8") : 0 - 4.4 Liter/Hr ~ 0 - 212 Liter/Hr
  - 5 mm (1/4") : 0 - 18 Liter/Hr ~ 0 - 848 Liter/Hr
  - 10 mm (3/8") : 0 - 71 Liter/Hr ~ 0 - 3393 Liter/Hr
  - 15 mm (1/2") : 0 - 159 Liter/Hr ~ 0 - 7634 Liter/Hr
  - 20 mm (3/4") : 0 - 283 Liter/Hr ~ 0 - 13571 Liter/Hr
  - 25 mm (1") : 0 - 442 Liter/Hr ~ 0 - 21205 Liter/Hr
  - 32mm (1-1/4") : 0 - 724 Liter/Hr ~ 0 - 34743 Liter/Hr
  - 40mm (1-1/2") : 0 -1131 Liter/Hr ~ 0 - 54286 Liter/Hr
- Cable Entry : 2 X PG11
- Ambient Temperature : -25 to +60 °C
- Process Connection : Screw male thread (BSP)
- Grounding Resistance : Must be less then 10 Ω
- Accuracy : +/-0.4% read-out values(Velocity>=0.5 m/s)
  : +/-0.2% read-out values
  (Suit for BMC3100 Converter only)
  : +/-0.0025 m/s (Velocity < 0.5 m/s)
- Temperature :
  - Compact : -10 ~ +80 °C
  - Separate : -20 ~ +120 °C
- Max. Pressure : 16 Kg/cm2
- Explosion Proof : Exd(ib)ibqIIBT5 (with BMC3100 only)
- Protection : IP 67
- Conductivity : More than 5 uS/cm

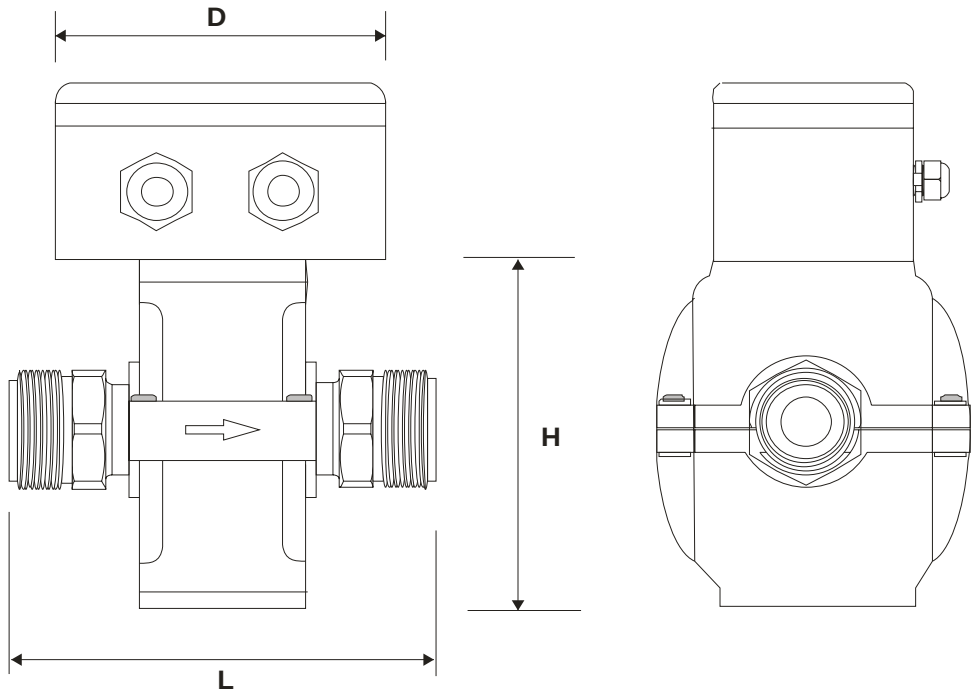
CE

FLOW RANGE

Unit: Liter/Hr

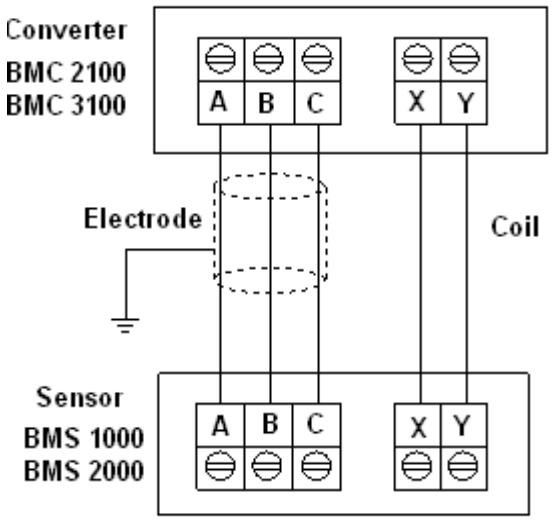
Normal Size		Flow Range & Velocity Table						
mm	Inch	Min. 0 - 0.25M/S	1.0 M/S	2.0 M/S	3.0 M/S	5.0 M/S	10.0 M/S	Max. 0 - 12 M/S
2.5	1/8"	0 to 4.4	18	35	53	88	177	0 to 212
5	1/4"	0 to 18	71	141	212	353	707	0 to 848
10	3/8"	0 to 71	283	565	848	1,414	2,827	0 to 3,393
15	1/2"	0 to 159	636	1,272	1,908	3,181	6,362	0 to 7,634
20	3/4"	0 to 283	1,131	2,262	3,393	5,655	11,309	0 to 13,571
25	1"	0 to 442	1,767	3,534	5,301	8,836	17,671	0 to 21,205
32	1-1/4"	0 to 724	2,895	5,790	8,686	14,476	28,952	0 to 34,743
40	1-1/2"	0 to 1,131	4,524	9,048	13,571	22,619	45,238	0 to 54,286

DIMENSIONS



Size		Connection	Dimensions (mm)			Weight
mm	Inch		L	D	H	kg
2.5	1/8"	1/2" BSP	110	97	106	1
5	1/4"		110	97	106	1
10	3/8"	3/4" BSP	110	97	106	1.2
15	1/2"		110	97	106	1.2
20	3/4"	1" BSP	130	97	106	1.5
25	1"	1-1/4" BSP	130	97	106	1.5
32	1-1/4"	1-1/2" BSP	140	97	128	1.8
40	1-1/2"	2" BSP	140	97	128	2

ELECTRICAL CONNECTION



MODEL SELECTION GUIDE

BMC6000 Series					
Example:BMS 6000-05-C-050-N					
BMC 6000 -	XX	-X	XXX	-X	Description
Size	2.5 ~40				2.5, 05, 10, 15, 20, 25, 32, 40mm
Electrode Material		-S			Stainless Steel 316L
		-T			Titanium
		-B			Hastelloy B
		-C			Hastelloy C
		-A			Tantalum
		-P			Platinum
		-U			Tungsten Carbide
		-Z			Others
Installation & Cable length			C		Compact version
			010~300		Separate version, Cable 10M ~ 300M
Option				-N	None
				-X	Explosion Proof,Exd(ib)ibqIIBT5(with BMC3100 only)

BMC 2100 Electromagnetic Flowmeter Converter

GENERAL

BMC 2100 series Converter can be used with BMS1000 series flow tubes in both compact or separate versions.

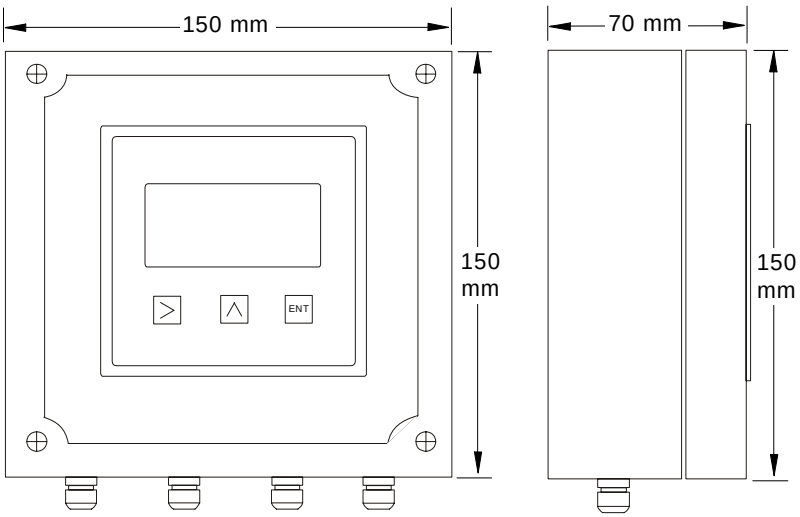
FEATURES

- Three line LCD display for Flow rate/Totalizer
- Accuracy of +/-0.4% of reading
- Bi-directional flow measurement, current and pulse output
- 4-20mA auxiliary Input include 4 digit display
- 99 of times Datalogger function for power on/off
- MODBUS/HART communication

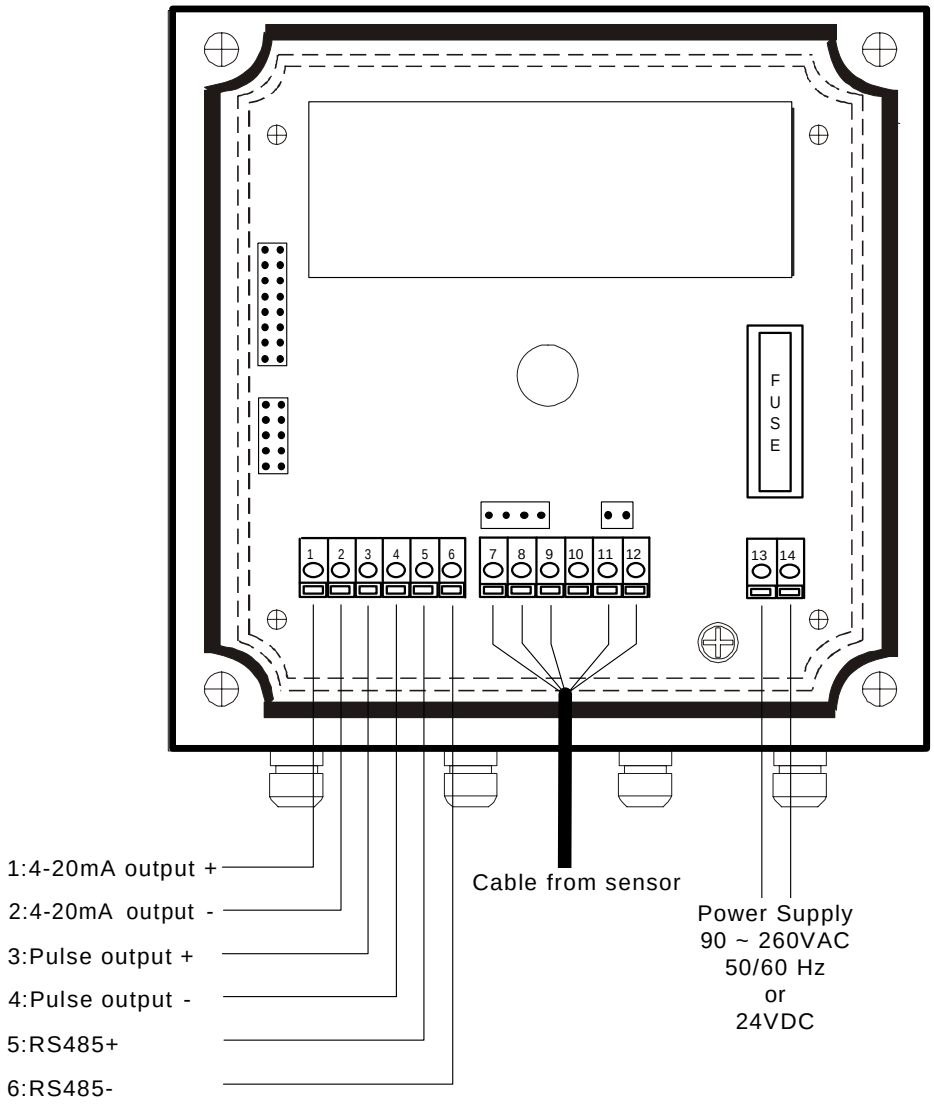
STANDARD SPECIFICATION

- Excitation : Square wave
- Display : 3 lines LCD with illumination
  - Line 1 : 11 digit totalizer for forward flow
    11 digit totalizer for reverse flow
    11 digit totalizer for difference
  - Line 2 : 5 digit flowrate / Velocity / % / mA / HZ
  - Line 3 : Parameter / Query / Clr tot / Query LOG Alarm, Guidance
  - Unit : M3/H , L/H , Kg/H , T/H , L/min M3/min , GPH , GPM
- Measuring Range : Min. 0 to 0.15 m/s
  : Max. 0 to 15 m/s
- Accuracy : +/-0.4% of reading (Velocity >= 0.5 m/s)
  : +/-0.002 m/s (Velocity < 0.5 m/s)
- Repeatability : +/-0.1% of reading
- Current Output : 4-20 mA (Isolated)
  - Load : Max. 600 Ω
- Pulse output : Open collector
  - Rating : 3 to 30 VDC, 20 mA Max.
- Pulse Rate : 1)Scale pulse, (Pusle/M3, Pulse/L, Other)
  : 2)Frequency, 0-5000 Hz
- Pulse Width : 50% of band width
- Alarms : High/Low with open collector output
  - Rating : 3 to 30 VDC, 20 mA Max.
- Communication : RS 485(MODBUS Protocol)
  : HART signal
- Data Storage : Operation parameters and totalization figures are stored by EEPROM for more then 10 years
- Keyboard : 3 keys from internal for programming and display control.
  : 3 keys from remote control for programming and display control.
- Low Flow Cutoff : 0 to 9.9 %
- Datalogger Function : 99 of times record for power on/off
- Record Data : Date/time when Power on/off
  : Flow rate when Power off
  : Totalizer when Power off
- Damping : 0 to 99 Second
- Density Setting : 0.1 to 9.99 g/cm2
- Self Diagnosis : The following error message is indicated when applicable
  - Coil fail
  - Power fail
  - Output overranged
  - Internal error
  - Overflow
  - Empty pipe
- Cable Entry : 4 X PG 11
- Protection Class : IP 65
- Ambient Temperature : -25 to +65 ℃
- Material : Aluminum Alloy
- Power Supply : 90-260 VAC, 50/60 Hz
  : 24VDC +/-10%(Option)
- Power Consumption : 3-17 W (depending on the sensor size)
- Weight : 1.4 Kg
- Mounting : Wall mounting

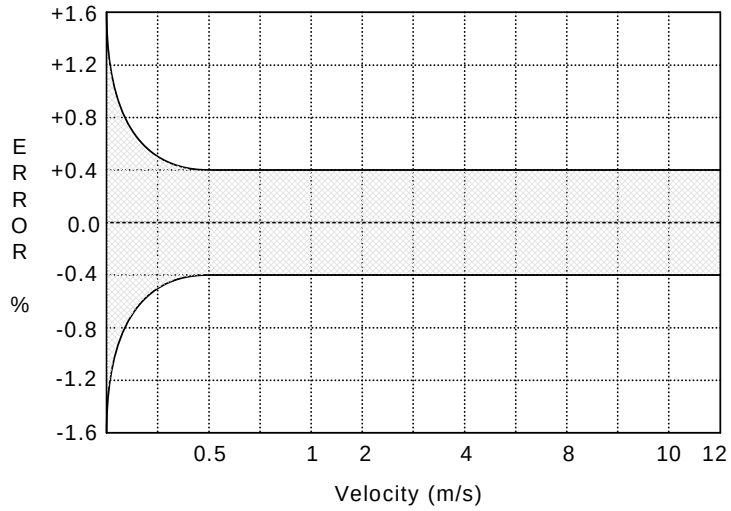
DIMENSION



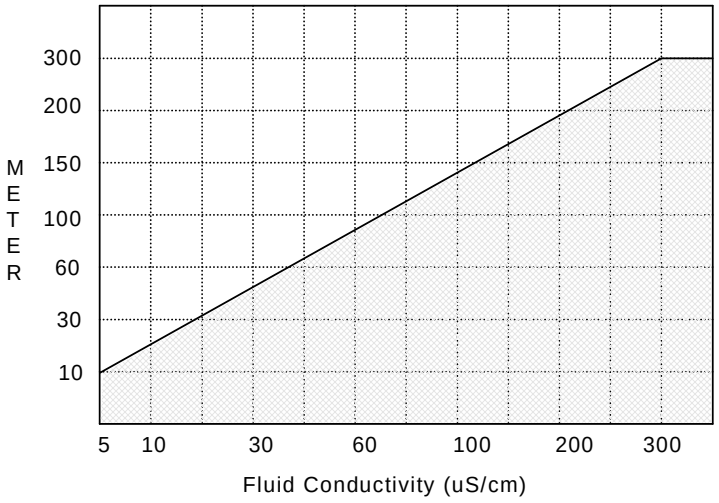
ELECTRICAL CONNECTION



ACCURACY



CABLE LENGTH BETWEEN SENSOR TO CONVERTER



MODEL SELECTION GUIDE

BMC2100 Series				
Example:BMC2100-AC-CP-HT				
BMC2100-	XX-	XX-	XX	Description
Power supply	AC-			90-260 Vac, 50/60 Hz
	DC-			24Vdc, +/-10%
Mounting		CP-		Compact with Sensor
		SW-		Separate, wall mounting
		S2-		Separate, 2" mounting bracket
Communication			NN	RS 485(MODBUS Protocol)
			HT	HART signal

BMC 3100

Electromagnetic Flowmeter Converter

GENERAL

BMC3100 series Converter can be used with BMS series flow tubes in both compact or separate versions.

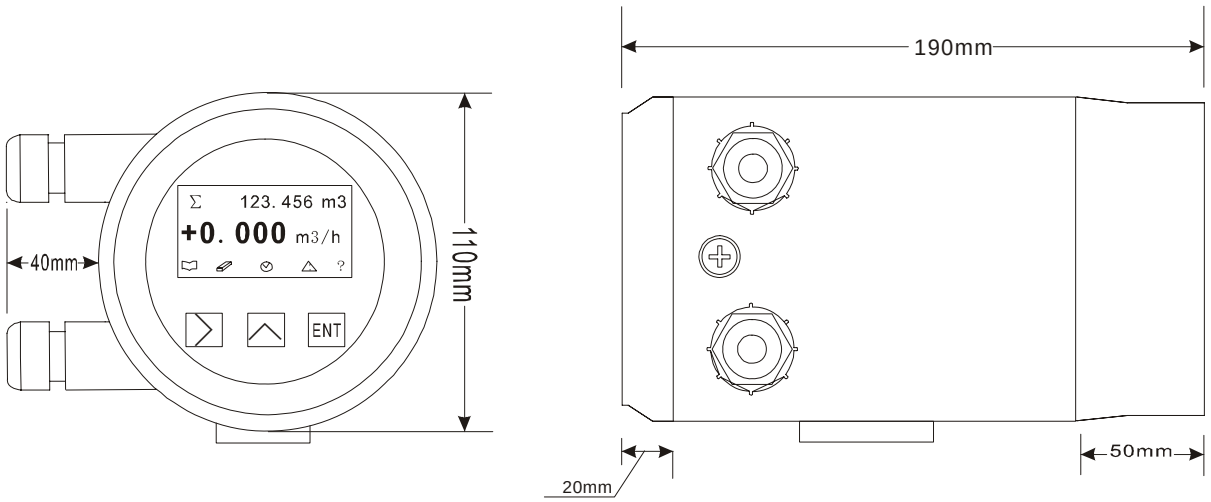
FEATURES

- Three line LCD display for Flow rate/Totalizer
- Accuracy of +/-0.2% of reading
- Bi-directional flow measurement, current and pulse output
- 4-20mA auxiliary Input include 4 digit display
- 99 of times Datalogger function for power on/off
- MODBUS/HART communication

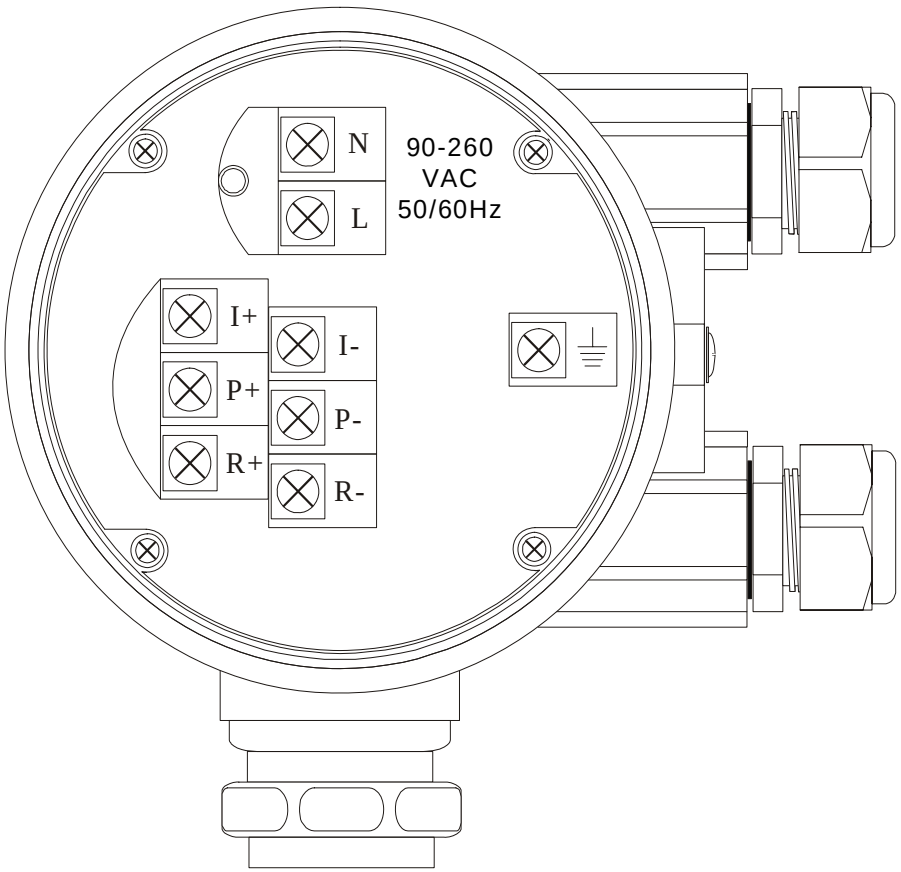
STANDARD SPECIFICATION

- Excitation : Square wave
- Display : 3 lines LCD with illumination
  - Line 1 : 11 digit totalizer for forward flow
  - : 11 digit totalizer for reverse flow
  - : 11 digit totalizer for difference
  - Line 2 : 5 digit flowrate / Velocity / % / mA / HZ
  - Line 3 : Parameter / Query / Clr tot / Query LOG Alarm, Guidance
  - Unit : M3/H , L/H , Kg/H , T/H , L/min
  - : M3/min , GPH , GPM
- Measuring Range : Min. 0 to 0.15 m/s
  - : Max. 0 to 15 m/s
- Accuracy : +/-0.2% of reading (Velocity >= 0.5 m/s)
  - : +/-0.001 m/s (Velocity < 0.5 m/s)
- Repeatability : +/-0.05% of reading
- Current Output : 4-20 mA (Isolated)
  - Load : Max. 600 Ω
- Pulse output : Open collector
  - Rating : 3 to 30 Vdc, 20 mA Max.
- Pulse Rate : 1)Scale pulse, (Pusle/M3, Pulse/L, Other)
  - : 2)Frequency, 0-5000 Hz
- Pulse Width : 50% of band width
- Alarms : High/Low with open collector output
  - Rating : 3 to 30 Vdc, 20 mA Max.
- Communication : RS 485(MODBUS Protocol)
  - : HART signal
- Data Storage : Operation parameters and totalization figures are stored by EEPROM for more then 10 years
- Keyboard : 3 keys from external for programming and display control.
- Low Flow Cutoff : 0 to 9.9 %
- Datalogger Function : 99 of times record for power on/off
- Record Data : Date/time when Power on/off
  - : Flow rate when Power off
  - : Totalizer when Power off
- Damping : 0 to 99 Second
- Density Setting : 0.1 to 9.99 g/cm2
- Self Diagnosis : The following error message is indicated when applicable
  - Coil fail
  - Power fail
  - Output overanged
  - Internal error
  - Overflow
  - Empty pipe
- Cable Entry : 2 X PG 11
- Protection Class : IP 67, Explosion proof,Exd(ib)ibqIIBT5
- Ambient Temperature : -25 to +65 ℃
- Material : Aluminum Alloy
- Power Supply : 90-260 Vac, 50/60 Hz
  - : 24Vdc +/-10%(Option)
- Power Consumption : 3-17 W (depending on the sensor size)
- Weight : 4.5 Kg
- Mounting : Wall mounting
  - : Bracket on 2" pipe

DIMENSION



ELECTRICAL CONNECTION



I+ : 4-20 mA Output +

I- : 4-20 mA Output -

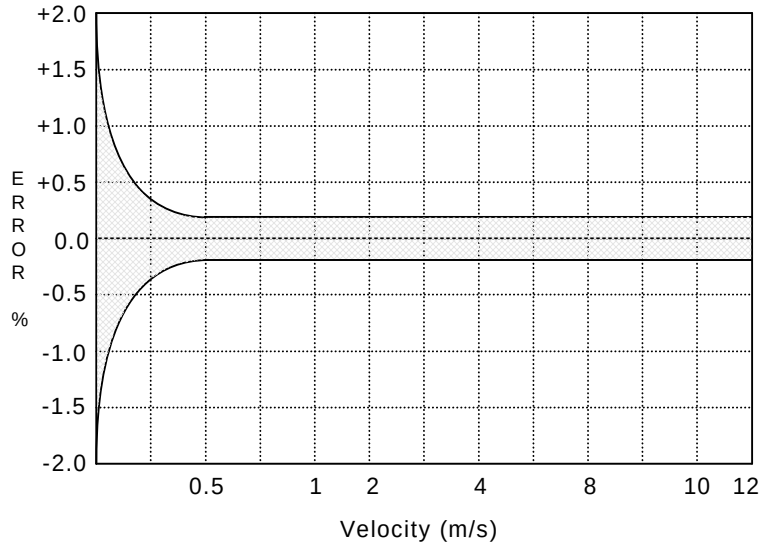
P+ : Pulse Output +

P - : Pulse Output -

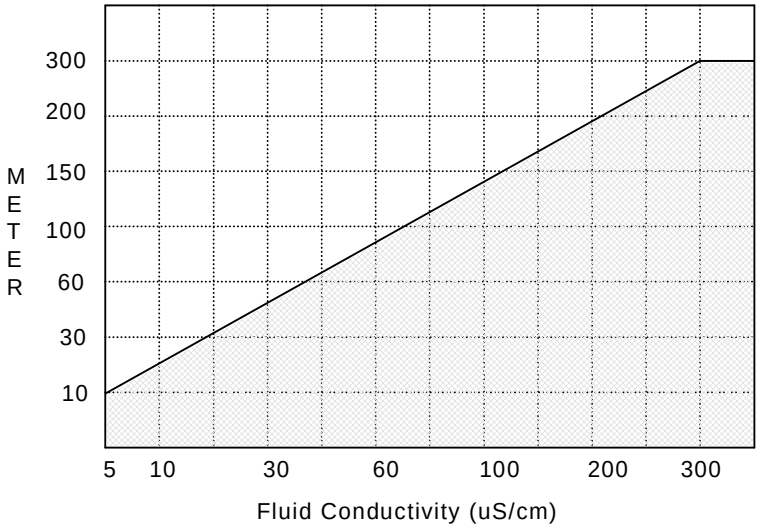
R+ : RS485 Output +

R - : RS485 Output -

ACCURACY



CABLE LENGTH BETWEEN SENSOR TO CONVERTER



MODEL SELECTION GUIDE

BMC3100 Series					
Example:BMC3100-AC-CP-EX-HT					
BMC3100-	XX-	XX-	XX-	XX	Description
Power supply	AC-				90-260 Vac, 50/60 Hz
	DC-				24Vdc, +/-10%
Mounting		CP-			Compact with Sensor
		SW-			Separate, wall mounting
		S2-			Separate, 2" mounting bracket
Enclosure			NN		IP67
			EX		Explosion Proof, Exd(ib)ibqllBT5
Communication				NN	RS 485(MODBUS Protocol)
				HT	HART signal