GLORINDA
Ideas Beyond Imagination

Introducing Glorinda
MAGSTREAM BP

Battery Operated Electromagnetic Flow Meter

www.glorinda.com

About
MAGSTREAM BP

About
MAGSTREAM BP:

Battery-Operated Electromagnetic Flow Meter

Glorinda MAGSTREAM BP is a battery-powered electromagnetic flow meter designed for scenarios where a power supply in the field is unavailable. This versatile meter allows for the installation of a reliable flow meter virtually anywhere without compromising accuracy and performance. MAGSTREAM BP offers 2 to 10 years of continuous battery operation, depending on sampling time and communication interval.

The flow meter is user-friendly, easy to install, and requires minimal maintenance. Engineered for diverse applications, including Municipal and Industrial Water applications, Cooling tower, and Water treatment, it features an LCD display providing indications for flow rate and totalized flow with key selection. The display automatically turns off after 10 minutes, with the option to be reactivated by pressing the ‹enter› key.

GLORINDA
Ideas Beyond Imagination

Features:

- Operates on Battery/Solar Power
- Ideal for conductive liquids
- Features full bore design
- Indicates empty pipe
- Includes Data Logging functionality
- Offers local indication via LCD
- Optional communication port
- Constructed with simplicity and cost-effectiveness in mind
- Maintenance Free

GLORINDA
Ideas Beyond Imagination

Applications:

Food Industry

Automation Industry

Chemical Industry

Thermal Power Energy

Atomic Energy

Process Industry

Manufacturing Industry

Water Treatment Industry

GLORINDA
Ideas Beyond Imagination

Technical

Specifications:

Media	Liquid (Conductive)
Line Size	15 NB to 600 NB
Power Supply	Battery / Solar Powered
Electronics	Integral / Remote
Conductivity	> 5 µS/cm
Viscosity	200 cp max
Excitation	Pulsed DC
Display	LCD Display - 5 digit for Flow Rate & 9 digit for Totalizer Flow
Calibration Range	Wet Calibrated on IEC/ISO/EN17025 Accredited Calibration Laboratory.
Accuracy	< ± 1% of M.V. +(± 5mm /sec) for Velocity Range 0.3 m/s to 6 or 12 m/s
Linearity	+/- 0.5% of M.V.
Repeatability	+/- 0.2% of M.V.
Temperature Coefficient	+/- 0.05% per °C
Process Temperature	-20 to 85° C max for Rubber Lining & -20 to 220°C for PTFE Lining
Process Pressure	16 kg/cm² max (Higher on request)
Material of construction	1) Lining - Neoprene / Ebonite Rubber, PFA, PTFE, PU, CERAMIC 2) Flange - MS, CS, SS316, SS304 & PVC 3) Electrode - SS316L, Hastelloy C, Platinum, Tantalum, Titanium 4) Coil Housing - MS, SS304, SS316 & PVC
MOC Electronics Enclosure	1) Aluminum Die Cast 2) SS316 3) ABS Plastic
Low Battery indication	Provided
Battery Life	2 to 10 Years depending on sampling time.
Response Time	10 Sec.
Electronic	Field Mount Weather Proof IP-67, Field Mount Weather Proof IP-68
Protection Class	DIN Standard (IP54), Flameproof (CMRI IIA IIB Certified)
Sensor/ Flow Tube Protection class	Weather Proof IP-67, IP-68
Process Connections	ANSI150 flanged, as per table B 16.5 (Other on Requirement)
Mounting	In-Line Horizontal / Vertical
Ambient Conditions	Temperature -20 to 75°C / Humidity 5 to 95% non-condensing
Communication Output	Output: 1 (Any one) RS484/GSM/GPRS
Certification	CE

Assembly
Overview

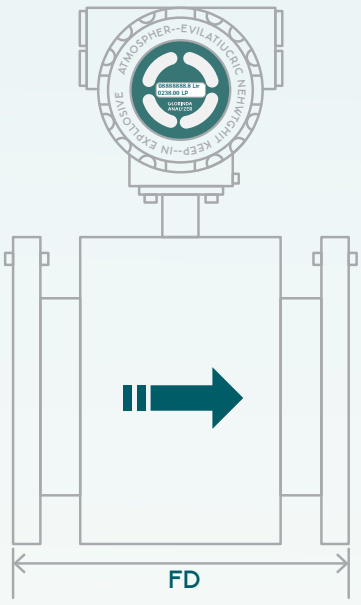


Fig. 1 front View

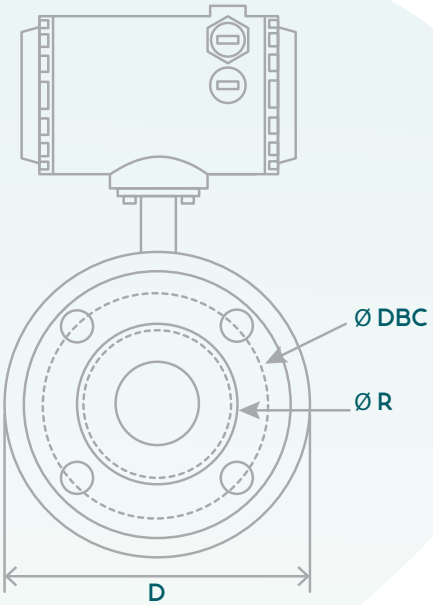


Fig. 2 Side View

GLORINDA
Ideas Beyond Imagination

TABLE : Dimensional Details (Flow Meter with ANSI 150 Flange)

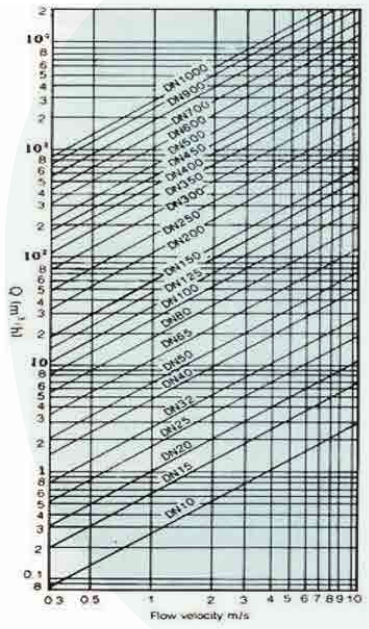
Line Size		Flange Diameter D (mm)	Diameter of Raised Face R (mm)	Diameter of Bolt Hole Circle DBC (mm)	Diameter of Bolt Hole (mm)	No. of Holes	Thickness of Flange	Housing OD (mm)	Flange to Flange Distance (FD) (mm)	Flow Range (m^3/hr) for Velocity 0.3m/s to 6m/s	
Inch	NB									Min.	Max.
½"	15	88.9	34.9	60.3	15.9	4	11.1	125	200	0.19	3.817
¾"	20	98.4	42.9	69.8	15.9	4	12.7	125	200	0.33	6.785
1"	25	107.9	50.8	79.4	15.9	4	14.3	145	200	0.53	10.602
1¼"	32	117.5	63.5	88.9	15.9	4	15.9	155	200	0.86	17.371
1½"	40	127.0	73.0	98.4	15.9	4	17.5	155	200	1.35	27.143
2"	50	152.4	92.1	120.6	19.0	4	19.0	165	200	2.12	42.4115
2½"	65	177.8	104.8	139.7	19.0	4	22.2	185	200	3.58	71.675
3"	80	190.5	127.0	152.4	19.0	4	23.8	205	200	5.42	108.573
4"	100	228.5	157.2	190.5	19.0	8	23.8	245	260	8.48	169.646
5"	125	254.0	185.7	215.9	22.2	8	23.8	265	260	13.25	265.071
6"	150	279.4	215.9	241.3	22.2	8	25.4	285	310	19.085	381.703
8"	200	342.9	269.9	298.4	22.2	8	28.6	355	360	33.929	678.584
10"	250	406.4	323.8	361.9	25.4	12	30.2	405	460	53.014	1060.28
12"	300	482.6	381.0	431.8	25.4	12	31.8	485	510	76.340	1526.81
14"	350	533.4	412.7	476.7	28.6	12	34.9	555	562	103.908	2078.16
16"	400	596.9	469.9	539.7	28.6	16	36.5	605	612	135.716	2714.33
18"	450	635.0	533.4	577.8	31.7	16	39.7	605	612	171.766	3435.33
20"	500	698.5	584.2	635.0	31.7	20	42.9	630	612	212.057	4241.15
24"	600	812.8	692.1	749.3	34.9	20	47.6	755	612	305.362	6107.25

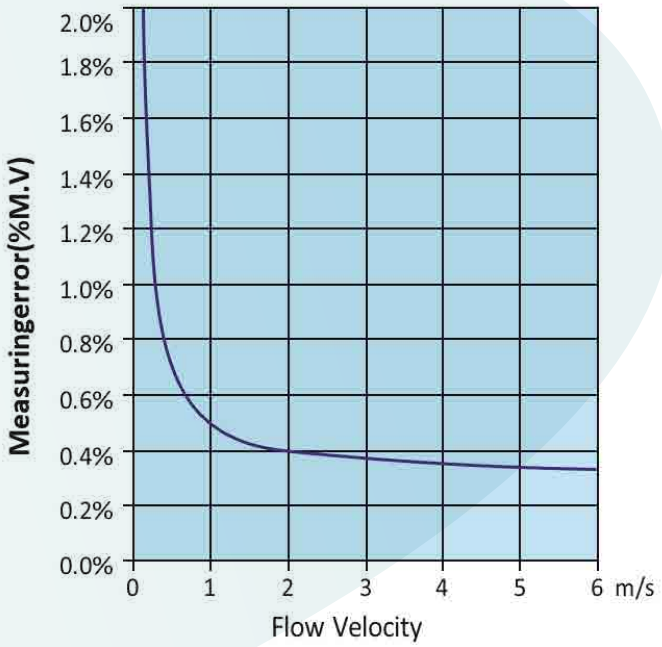
Note: Flange to flange distance (FD) Tolerance: 1) 1/2"(15NB) to 6"(150NB): +/-3mm
2) 8"(200NB) to 24"(600NB): +/-5mm

- All dimensions are in 'mm'
- For dimensions of line size above 600NB, please consult actory.
- Typical mounting dimensions are for reference only.
- Wet Calibrated at IEC/ISO/EN17025 Accredited Calibration Laboratory.
- Flow meter should be selected with the help of Nomograph (recommended full scale velocity).
- Flow indication of 6-digit max. up to 999999.

GLORINDA
Ideas Beyond Imagination

Flow
Nomograph





GLORINDA
Ideas Beyond Imagination

Product

Ordering Information:

Order Code for Flow Transmitter

Sample Order Code: ET1 | P3 | EE1 | EC1 | O21 | CO11

	Parameter	Code	Description
ET	Electronics Transmitter	ET1	Field Mount Weather Proof IP67
		ET2	Field Mount Weather Proof IP68
		ET3	DIN Standard (IP 54)
		ET4	Flameproof (CMRI IIA IIB Certified)
P	Power Supply	P3	Battery Operated
		P5	Solar Powered 3.6V DC
EE	MOC Electronics Enclosure	EE1	Aluminium Die Cast
		EE2	SS316
		EE3	ABS Plastic

	Parameter	Code	Description
EC	Electrical Connection	EC1	M20 ·1.5 F
		EC2	1/2 Inch NPT F
		EC3	Pluggable Connector
		ECY	Other
O2	Output 2 (Any One)	O21	Pulse (Open Collector Type)
		O2X	NA
CO1	Communication Output1 (Any One)	CO11	RS485(MODBUS RTU) /GSM/GPRS
		CO1X	NA

Note:
- In case of flameproof version only electronics enclosure is flameproof certified.
- Accuracy defined at Lab Conditions.

GLORINDA
Ideas Beyond Imagination

Order Code for Flow Tube

Sample Order Code :

FT1	EL1	RCL1	L1	PC1	CMF1	CMC1	MF1	FS1	CMT1	CME1

Parameter		Code	Description	Code	Description
FT	Flow Tube	FT 15	15 NB	FT150	150 NB
		FT 20	20 NB	FT200	200 NB
		FT 25	25 NB	FT250	250 NB
		FT 32	32 NB	FT300	300 NB
		FT 40	40 NB	FT350	350 NB
		FT 50	50 NB	FT400	400 NB
		FT 65	65 NB	FT450	450 NB
		FT 80	80 NB	FT500	500 NB
		FT100	100 NB	FT 600	600 NB
		FT125	125 NB		
EL	Electronics Location	EL1	Integral (Local)		
		EL2	Remote		
RCL	Remote Cable Length	RCL1	5 Meter		
		RCL2	10 Meter		
		RCL3	15 Meter		
		RCL4	25 Meter		
		RCLX	NA		
L	Flow Tube Protection Class	L1	IP-67 (In case of Integral)		
		L2	IP-68 (In case of Remote)		
PC	Process Connection	PC1	Threaded (15 to 50 NB)		
		PC2	Flanged (15 To 3000 NB)		
		PC3	Triclover (15 to 100 NB)		
		PC4	SMS Union (25 to 100 NB)		
		PC5	Compact (Wafer) -15 to 200 NB Maximum		
CMF	Material of construction - Flange	CMF1	MS		
		CMF2	CS		
		CMF3	SS 304		
		CMF4	SS 316		
		CMF5	PVC		
		CMFX	NA		

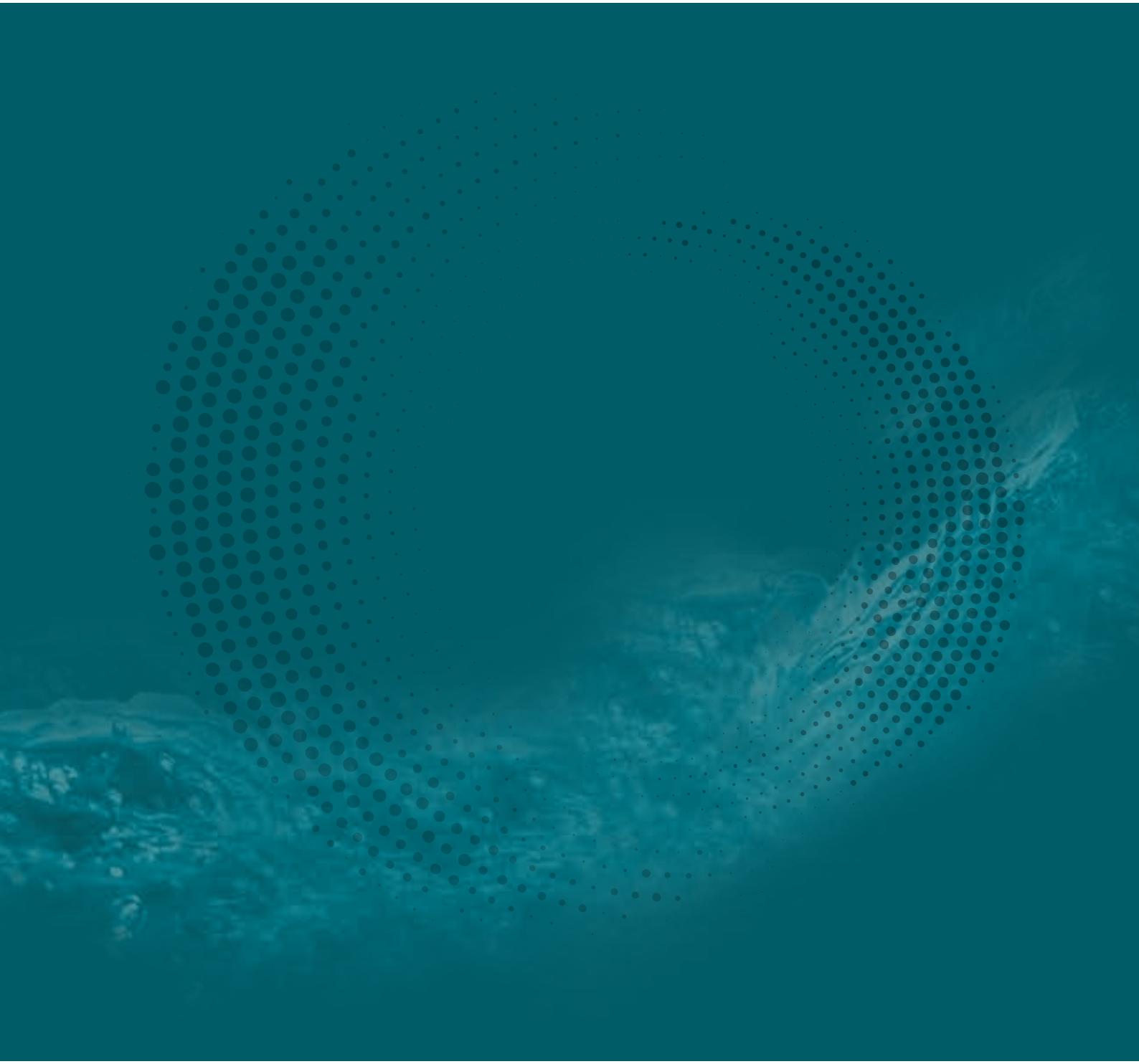
	Parameter	Code	Description
CMC	Material of construction - Coil Housing	CMC1	MS
		CMC2	SS 304
		CMC3	SS 316
		CMC4	PVC
MF	Flow Tube Lining Material	MF1	Neoprene Rubber (Above 40 NB)
		MF2	Ebonite Rubber (Above 40 NB)
		MF3	PFA (15 to 300 NB)
		MF4	PTFE (15 to 600 NB)
		MF5	PU (15 to 400 NB)
		MF6	Ceramic (15 to 600 NB)
		MF7	PVC
		MFY	Other
		MFX	NA
FS	Flange Standard and Rating	FS1	ANSI 150 B16.5
		FS2	ANSI 300 B16.5
		FS3	ANSI 600 B 16.5
		FS4	DIN PN 10 EN 1092-1
		FS5	DIN PN 16 EN 1092-1
		FS6	DIN PN 25 EN 1092-1
		FS7	DIN PN 40 EN 1092-1
		FS8	IS 1538
		FSY	Other
		FSX	NA
CMT	Material of construction - Flow Tube	CMT1	SS 304
		CMT2	SS 316
		CMT3	PVC
		CMTY	Other
CME	Material of construction - Electrode	CME1	SS 316L
		CME2	Hastelloy C
		CME3	Platinum Coated
		CME4	Tantalum
		CME5	Titanium

Note:

- Due to our continuous product revisions, design specification and model numbers are subject to change without notice.
- To be used for industrial applications.
- For other requirement please consult factory.

GLORINDA

Ideas Beyond Imagination



Klingholzstr. 7, D-65189 Wiesbaden, Germany
info@glorinda.com
+49(0) 611 97774 235
glorinda
www.glorinda.com