



ELECTROMAGNETIC FLOWMETER  
Pri - Mag 6000 H

## A COMMITMENT TO BETTER PERFORMANCE

Pride Controls & Systems Pvt Ltd is an ISO 9001 : 2015 Certified Manufacturing company of High Performance Industrial grade flow measuring instruments. The Pri - Mag series of electro magnetic flow meters are manufactured in robust design to meet all kinds of industrial challenging atmosphere and performs with good accuracy and reliability.



### WORKING PRINCIPLE OF ELECTROMAGNETIC FLOWMETER

Faraday's law of electromagnetic induction formulates the working principle of this flow measuring equipment. This electromagnetic flowmeter consists of two numbers of inductive coils, electrodes and transmitter unit. The measurement is done when the conductive fluid passes through the pair of coils which the electromagnetic field created, and the voltage induced due to flux which is sensed by the electrodes and transmitted to the electronic circuits.



### Pri - Mag 6000 H Components

- 1- Transmitter Housing
- 2- Cable Gland
- 3- LCD Display
- 4- Name Plate
- 5- Earth Plate Ring
- 6- Coil Housing
- 7- Electrode
- 8- PTFE Lining
- 9- Flange

Pri - Mag 6000 H



## ADVANTAGES OF PRI - MAG 6000 H

- Accuracy will not be affected due to change in viscosity, density, pH, temperature & pressure
- Minimum line size 10mm to maximum 3000mm
- No moving parts and it's a full bore flow meter
- No wear and tear parts so that increased service life
- Fast response to intermediate flow changes
- Suitable for liquids with sludge, heavy particles and slurries
- Equipped with latest communication protocols to support industry 4.0 / Internet Of Things (IOT)
- Suitable for highly corrosive and inflammable liquids, chemicals acids and bases with certain level of conductivity
- PRI - MAG comes with both Metal and Non-Metal body
- Various power options like AC, DC, Battery Powered and Solar Powered
- Communication protocols includes HART, GSM, GPRS, RS 485, RS 232 MODBUS RTU
- Electrodes in hastelloy C, Titanium, Tantalum, Platinum can be given as per the fluids parameters

## INDUSTRIES SERVED



Water & Waste Water



Paper & Pulp



Oil & Gas



Coal & Mining



Pharma & Medicines



Automobile



Food & Beverages



Power Generations



Cement



Iron & Steel



PRI - MAG 6000 H ELECTROMAGNETIC FLOWMETER



## Measurable Minimum & Maximum flow range

Line Size	m <sup>3</sup> / hr		LPM	
	Flow Min	Flow Max	Flow Min	Flow Max
DN 10	0.06	3.38	0.94	56.53
DN 15	0.13	7.63	2.12	127.21
DN 20	0.23	13.56	3.77	226.15
DN 25	0.35	21.19	5.89	353.36
DN 32	0.58	34.91	9.65	578.96
DN 40	0.90	54.28	15.08	904.63
DN 50	1.41	84.82	23.56	1413.49
DN 65	2.39	143.28	39.82	2389.20
DN 80	3.62	217.08	60.31	3618.55
DN 100	5.65	339.24	94.23	5653.99
DN 125	8.84	530.16	147.24	8834.38
DN 150	12.72	763.32	212.03	12721.50
DN 200	22.60	1356.00	376.93	22616.00
DN 250	35.20	2112.00	588.96	35337.50
DN 300	50.89	3053.16	848.10	50886.00
DN 350	69.26	4155.72	1154.36	69261.50
DN 400	90.46	5427.84	1507.73	90464.02
DN 450	114.49	6869.64	1908.40	114503.76
DN 500	141.35	8481.00	2355.83	141350.03
DN 600	203.54	12212.52	3392.40	203544.04
DN 700	277.04	16622.40	4618.08	277084.68
DN 800	365.44	21926.40	6090.65	365439.00
DN 900	457.98	27478.80	7633.87	458032.32
DN 1000	568.16	34089.60	9469.50	568169.76
DN 1200	814.18	48850.80	13569.60	814176.12
DN 1400	1108.18	66490.80	18471.94	1108316.28
DN 1600	1447.42	86845.20	24125.37	1447522.44
DN 1800	1831.90	109914.00	30809.45	1848566.76
DN 2000	2261.60	135696.56	37880.56	2272833.60



## MODEL CODE SELECTION

MODEL	SPECIFICATIONS
PRI - MAG	Pride Electromagnetic Flowmeter
Code	Body Type
6000 H	Metal
Code	Transmitter Mounting
L	Integral Transmitter
R	Remote Transmitter
Code	Power Supply
A	80 - 300 V AC
B	Battery Operated
C	Solar Powered
D	24 V DC
Code	Output
1	4 - 20 mA DC
2	0 - 20 mA DC
3	Pulse
4	Relay
5	Combo of Above
Code	Communication Protocol
0	NA
1	RS 485 MODBUS RTU
2	RS 282 MODBUS RTU
3	HART
4	GSM
5	GPRS
Code	Pressure Rating
A	10 BAR
B	16 BAR (Optional)
C	25 BAR (Optional)
D	40 BAR (Optional)
Code	End Connection
1	Flanged
2	Triclamp
3	Wafer
4	Other as per request
Code	Body & Flange Material
R	Carbon Steel
S	Stainless Steel 304
T	Stainless Steel 316
Code	Area of installation
W	Safe
X	Explosive / Flammable
Code	Coil Housing
R	Carbon Steel
S	Stainless Steel 304
T	Stainless Steel 316
Code	Flow tube
S	Stainless Steel 304
T	Stainless Steel 316
Code	Electrode Material
1	Stainless Steel 316L
2	Hastelloy C
3	Platinum
4	Titanium
5	Tantulam
6	Other as per request
Code	Liner Material
H	Hard Rubber
P	PTFE
A	PFA
F	FEP
O	Other as per request
Code	Enclosure
A	ATEX
C	CE
N	N/A
Code	Liner Size
****	DN10 - DN3000

# About Pride Controls

Pride Controls & Systems is an ISO 9001 : 2015 certified manufacturing company of industrial flow measuring equipments in india . We at Pride Controls manufactures flow meters such as Electromagnetic flowmeters, Vortex flowmeters, Thermal mass flowmeters, Turbine flowmeters, Ultrasonic flowmeters & water meters.

Pride Controls provides process instruments supply and automation solutions for Flow ,Pressure, Temperature , Level ,Liquid Analysis Valves & Control valves integrated with PLC , DCS , Scada , HMI , VFD that gives solutions to various industries like Pharma & Bulk Drug , Sugar Paper & Pulp, Chemical, Cement , Food & Beverages Dairy, BMS & HVAC Effluent Treatment, Sewage Treatment, etc. The end user or the OEM gets extensive support for the above mentioned processes & applications when they have a plant to go for new plant, plant extension, upgrade the existing or even troubleshooting.



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