

#### INTRODUCTION

CBRO Electromagnetic flowmeter's accurately measures the flow rate of conducting liquids or slurries flowing in closed pipes. Due to simple and right design the flowmeter is an obstruction less & maintainence free instrument in place of conventional mechanical flow measuring device. The use of "Pulsed DC" technology offers highest ability & better measuring accuracy in form of 4-20mA DC linearly proportional to volumetric flow.

#### **FEATURES**

- \* Size DIN 10 TO DIN 3000 NB pipe line.
- \* High Accuracy better than +-0.5% of reading.
- \* Zero Pressure Drop.
- \* Suitable for High Viscosity Conductive Liquids.
- \* Digital Flow rate / Totalizer Indication / Batching system
- \* Isolated Transmitting Output 4-20 mA.
- \* No Grounding Rings require.
- \* Minimum Upstream & Downstream Stright Length.
- \* Compact & Rugged, IP 65 protection.
- \* Remote Flow indication Totalizer / Batching system
- \* Data Logging & Wireless Data Transfer System Through GSM MODEM

### **APPLICATIONS**

- \* Effluent Treatement Plants.
- \* Sewage Treatement Plants.
- \* Water Supply Schemes.
- \* Steel & Aluminium.
- \* Pulp & Paper.
- \* Chemical & Fertilizers.
- \* Food & Drug.
- \* Pumps & Valve Calibration Lab.
- \* Dairy Industry.
- \* Corrosive Liquids.
- \* Sugar Industry.
- \* Textile Industreis
- \* Dyeing and Printing Textiles
- \* Hotels & Resorts
- \* Water Parks
- \* Buildings & Infrastructure
- \* Muncipal Corporation



#### SPECIFICATIONS

## SANITARY FLOWMETER FOOD GRADE

Coil housing
M.O.C. of flow tube
M.O.C. of Flange
Flange connection
Electrode
Electrode type
Liner

Electrical Conductivity

Accuracy

Operating Pressure Operating temp.

Insulation Class of Field Coils Mains Voltage

walls volcage

Power Consumption Input Impedance

Type Enclosure

Enclosure / Painting

Signal convertor

Display

Computer Interface

Flow unit Cable Entry Test Pressure

Output

Empty Pipe Detection

Low cutt off
Batching
Damping
Direction
Programming
Terminals

Interchange ability

Power failure mode

SS-304 SS 304

M.S. (std) / SS304 & SS316 (Optional)

ASA 150#Flanged as per B 16.5.

SS 316 / SS 316L / Hasteloy C / Titanium Round head electrodes (Bullet nose)

Round head electrodes (Bullet nose)
PTFE / PFA ( other on request)
10 [S/cm (5 [S/cm for many liquids)

+ 0.5 - 0.2 % of F.S. 10Kg/cm<sup>2</sup> (more on request)

250°C.

H, temp of fluid 80°C (higher temp on request) 230 VAC, 50 Hz / 440 VAC, 50Hz (Optional)/

24 V DC (optional)

Up to 20 VA 1000 M Ohms

Pulsed DC excitation Cast aluminium Ip65 /

Flammeproof CMRI IIA IIB Signal Amplifier Box

Size 220 X 120 X 85 mm withglass window.

IP 67 / Corrosive resistant

two component coating (IP 68 optional)

Head mount or remote.

16 X 2 LCD

RS-485/ RS-232 (Optional)

Selectable.

2 off, suitable for 8mm diameter cable

1.5 X Rated Pressure

4-20 mA/ freq./ pulse (Optional)

Available Aailable

Available (Optional)
Available (Optional)
Suitable for bi directional

Through Key/ Keypad on front facia.

Shock Hazard Protected screw

less terminals.

Fully interchangeable with all sizes

of flow sensors.

Provision of RAM/PROM to store parameter entered and measured flow data during power failure



FLOWMETER FOR SANITARY APPLICATIONS
WITH UNION CONNECTION TRICCLOVER TYPE



LOWMETER FOR SANITARY APPLICATIONS
WITH FLANGED END CONNECTION

# **SELECTION TABLE**

Pipe Size		Max Flow	Nominal Flow	M in Flow	(Cut- off)
	William Indi	10 m/s	5 m/s	0.3 m/s	0.04m/s
Inch	Mm	Lps		Lps	Lps
1	25	5.09	2.50	0.15	0.016
1 %	32	8.00	4.0	0.25	0.03
1 %	40	12.00	6.0	0.41	0.05
2	50	19.80	10.0	0.58	0.08
2 1/4	65	33.18	16.0	1.00	0.13
3	80	43.61	22.0	1,50	0.20
4	100	75.10	38.0	2.41	0.33
5	125	125.0	63.0	3.66	0.50
6	150	170.43	85.0	5.50	0.69
8	200	295.11	147.0	9.70	1.38
10	250	465.18	232.0	15.20	2.08
12	300	667.18	333.0	22.0	2.77
14	350	798.18	399.0	23.95	3.20
16	400	1166	583	38.0	5.55
18	450	1500	750	50.0	7.0

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