SFIC™

SAITECHFLOW

INSTRUMENTS & CONTROL

An ISO 9001 & CE Approved Company

Remote Display

Integral Display

PH Meter

Online Monitoring System

Reference Flow Meter - CWPRS

www.saitechflowinstru.com

Our SAITECHFLOW Make Flow Meters are known as MICROMAG.
Designed precisely to measure myriad range of liquid media even with low conductivities and slurries very accurately.
As it is based on " Faraday's Law of Electro-magnetic Induction" its always gives accurate readings irrespective of its impurities, Viscosity, Density, Temperature or pressure etc.
MICROMAG has diverse range of Models based on different MOC for inner/ outer material, Electrodes and linings and enclosures with latest features such as RS 485 compatibility, GSM connectivity to serve numerous applications.

WORKING PRINCIPLE:

Our MICROMAG Flow Meter is based on famous principle of Faraday's Law of Electro-magnetic Induction which states that there is the production of an electromotive force (i.e., voltage) across an electrical conductor(i.e. electrodes) in a changing magnetic field whenever a conductor (conductive liquid in this case) moving through it.

$$E = (B*v*D)$$

E = electromotive force (voltage induced)
B = Magnetic Flux Density
V= Mean Velocity of the Media
D = Distance between the two Electrodes

Therefore, as per above principle whenever a conductive liquid passes through fixed size of Flow Meter; wherein distance between the 2 electrodes is also constant it yields the induced voltage which is entirely proportional to velocity of the Flowing Conductive media which in turn can be calibrated as volumetric "Flow Rate" for provided cross-sectional area of the flow tube.
Our flow meters are highly recommended for :

- Water Distribution/ RO Plant, Waste Water/ Sewage Water, Food & Drug Industry, ETP, STP Sugar,
- Milk/ Dairy Industries, Chemical, Pharma Factories, Power Industries, Pulp & Paper

Advantages :

- It can measure highly corrosive liquids,
- It is unaffected by impurities hence best used for slurries in sugar industries, pulp in paper industries,
- It has no obstructive parts hence can handle gravity flow very well, ,
- Based on DC pulse magnetization technique , hence very high zero stability
- It Can be very large bore sizes also,

Flow Meter Selection

Criteria	PTFE/PFA Lining	Rubber Lining	Without Lining (SS 304 / SS 316 Tube)	HDPE/PVC	Insertion Type
Service Media	Water, Chemical, STP, ETP, Hot Water, Juice, Molasses, Milk Corrosive liquid	Normal / Raw / Row Water, Diluted chemical / sewage, Molasses	Water, Chemical , STP, ETP, Hot Water, Juice, Molasses, Milk	Water, Chemical, STP, ETP	Water, Chemical , STP, ETP, Raw Water, Sewage, Molasses
Temperature	0 - 150 Deg - PTFE 0 - 200 Deg - PFA	0 - 70 Deg	0 - 150g	0 - 50 Deg	0 - 150 Deg
Pressure	0 - 25 KG/Cm²	0 - 25 KG/Cm²	0 - 25 KG/Cm²	0 - 10 KG/Cm²	0 - 25 KG/Cm²
Line size	DN 10 - DN 300	DN 10 - DN 1500	DN 10 - DN 1500	DN 25 - DN 150	DN 300 - DN 2000
Electrodes	Hastelloy / SS 316	Hastelloy / SS 316	Hastelloy / SS 316	Hastelloy / SS 316	Hastelloy / SS 316
Flanges (Process Conn.)	ANSI/DIN	ANSI/DIN	ANSI/DIN	ANSI/DIN/BS/NPT/ SMS/Triclover End	NA
Display	Integral/Remote/Panel	Integral/Remote/Panel	Integral/Remote/Panel	Remote	Remote
Out Put	4-20, Rs485, RS232, Relay, GSM	4-20, Rs485, RS232, Relay, GSM	4-20, Rs485, RS232, Relay, GSM	4-20, RS485, RS232, Relay, GSM	4-20, Rs485, RS232, Relay, GSM

Flow Range

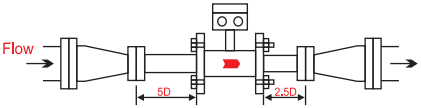
DN	15	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500	600
Inch	½	1	11/4	11/2	2	2.5	3	4	5	6	8	10	12	14	16	20	26
M³/Hr Min	0.1	0.5	0.8	1.3	2.1	3.5	5.4	8.4	13.2	19	33.9	53	76.3	103.9	135.8	212.1	305.4
M³/Hr Max	7.6	21.2	34.7	54.2	84.8	143.3	217.1	339.2	530.1	763.1	1357	2120	3053	3986	4919	5852	6785

"Nominal Dia (mm)	: 15 to 400 NB
"Material of Construction	: MS, SS 304, SS 316 & SS 316L
"Electrode Material	: SS 316, SS 316L, Hastelloy 'C', & Tantalum, Titanium etc.
"Process Pressure / Process Temperature	: 25 kg/cm2 to Max. 40 kg/cm2, / Max. 150 Deg. C
"Flow Tube Material	: SS304, SS 316, SS 316L
"End Connection	: Flange/Wafer/ SMS/ TRI-CLOVER etc.
"Accuracy	: ±0.5% FSD.
"Display	: LED/ LCD// Integral /Remote
"Display Unit	: Standard Unit in M3/Hr, LPH, LPM, LPS etc.
"Power Supply	: 230 VAC, 50 Hz & 24 VDC
"Transmitter Output	: 4 - 20 mA/ RS 485 MODBUS
"Installation	: Inline Flange Type or Insertion type also available

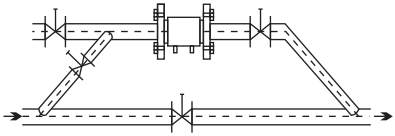
Mechanical Water Meter

Water Meter Screw Typed & Flanged Typed. Standrerd Model : Class-A Hot Class-A, Multi Jet Class-B. Line Size:15mm to 50mm Screw Typed. Line size: 1.5mm to 300mm Flanged Typed

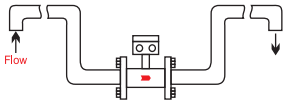
Installation Guidelines



Straight Run



Installation in Bypass



Installation in Open Pipe

Insertion Type

Meter Size	DN 300 To DN 2000
Temperature	0-150°C
Electrodes	Hastelloy / SS316
Flow Meter Body	SS 304 / SS 316
Input supply	110 To 230 V Ac.50 HZ
Power Supply of Field Coils	Pulsed DC
Min. Conductivit	5µs/Cm

Digital Rotameter

Specifications :

: Accuracy +/- 1.5% of FSR.
: Range ability 10:1
: Repeatability +/- 0.25% of FSR
: Temperature Rating -50 to 320 °C.
: Pressure Rating 280 kg/cm2
: Flow Direction Bottom to Top
: End connection Flanged

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PD Meter

Key Features

: Presentable Batch Control
: 4-20 mA output
: Relay output for pump/motor and digital valve control
: Self diagnostic
: Tamper-Proof and sealed calibration facility
: Can be integrated with PLCs/SCADA applications
: Explosion proof enclosures of hazardous areas application, certified by CMRI for class IIA & IIB applications
: Power : 230 V/110 VAC supply, 12/24 DC supply with battery backup
: Least count : 0.001 to 1.0 or as per customer specification

Turbine Flow Meter

Specifications :

· : Line Size: 15 NB to 150 NB
· : Media: Liquids (clear)
· : Power Supply: 24 VDC
· : Output: 4-20 mA / Pulse – 30 mA peak to peak
· : Accuracy: +/- 1% of F.S.

Online Data Monitoring and Data Management System Software

The basic functional capabilities of such as,

- The system capable of collecting data on real time basis without any human intervention.
- The data generation, data pick up, data transmission; data integration at server end automatically
- The submitted data automatically transfer to the Boards, SPCBs/PCCs and CPCB for immediate corrective action
- Raw data automatically transmitted simultaneously to SPCBs /PCCs and CPCB
- Data transmission through different media like GPS, CDMA, Normal phone line, Data cards, Broadband, 3G .etc.
- Data Storage for next five years.
- Data logging and uploading as per government (MPCB / CPCB) norms
- Comparison of parameters of different locations in user selectable time formats i.e. in graphical and tabular formats compatible to MS Excel, MS CSV, *.image format .jpg .png etc.
- Online monitoring of data from the flow meter and pH meter
- Cloud-based software online data monitoring software
- Easily integrated third party devices

OUR CLIENTS

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Works : Gat No. 624/9, Behind Gabrial Company, Kuruli, Chakan, Tal. Khed, Pune - 410501
Mob. : 8237013501/3 **Email :** saitechflow@gmail.com / sfic.mktg@gmail.com
Website : www.saitechflowinstru.com

Customer Care : 8530344501