



HPC

HARSH PROCESS CONTROL





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ABOUT US:

- **HARSH PROCESS CONTROL** Automation is an emerging Industrial Automation and Control Solutions company located at Ahmedabad,
- We are an ISO 9001:2015 certified organization
- We are the manufacturer of Instrumentation products, comparable to the best brands available in the market with over 500+ satisfied customers across the globe.
- We also specialized in Calibration Services.



ELECTROMAGNETIC FLOW METER

TECHNICAL SPECIFICATION

Line Size :	15 NB To 600 NB
Accuracy :	+/- 0.5% FSD
Repeatability :	+/- 1%
Process Temperature :	85 C , 150 C
Process Pressure :	25 kg/cm max
Electrode :	ss 316L / Hastalloy c / Tantalum
Flow Tube :	ss 304
Material of Construction :	PTFE/RUBBER
Flange Connection :	ASI 150
Media :	Liquid (Conductive)
Conductivity :	> 5 ms/cm
Viscosity :	200 cp max
Power Supply :	230v AC / 110v AC / 24v DC
Transmitter Enclosure :	Aluminum IP 65 / IP 67
Transmitter Out Put :	4-20 ma isolated / Rs485 (optional)
Sensor Coating :	Epoxy Paint
Calibration Range :	As Per Requirements(Factory Calibration)



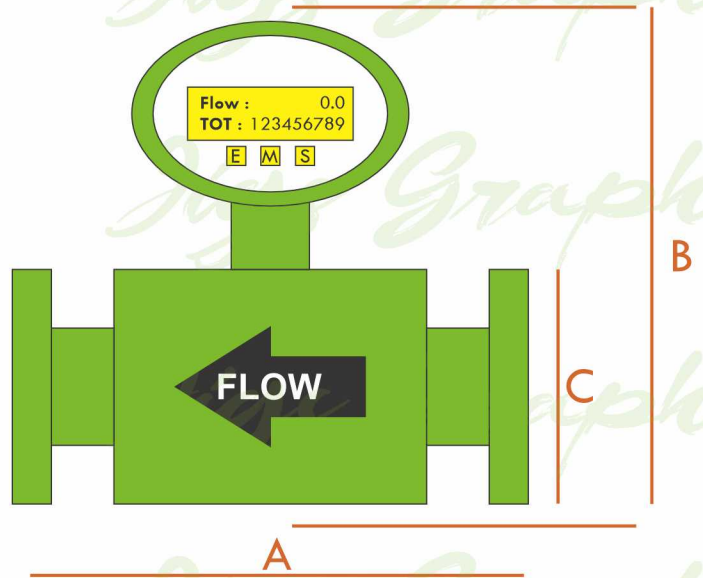
Sr.No.	Line Size in NB-Inch	Flow Rate 0.5m/s Min (Flow RateM ³ /hr)	Flow Rate 5m/s Max (Flow RateM ³ /hr)
1	15 NB (0.5")	0.318	3.18
2	25 NB (1")	0.883	8.83
3	20 NB (1.5")	2.26	22.6
4	50 NB (2")	3.53	35.3
5	65 NB (2.5")	5.97	59.7
6	80 NB (3")	9.04	90.4
7	100 NB (4")	14.13	141.13
8	150 NB (6")	31.8	318.0
9	200 NB (8")	56.52	565.2
10	250 NB (10")	88.31	883.1
11	300 NB (12")	127.1	1271.7

ELECTROMAGNETIC FLOW METER

APPLICATION :

- Chemical and Process industries
- Petro-Chemicals & Fertilizers
- Effluent treatment plants
- Water and Sewerage Plants
- Mining and aluminum industries
- Pharmaceutical & Drug Industries
- Pulp and Paper Industries
- Sugar & Steel Industries

Size	A	B	C
1/2"	180	280	90
1	180	295	105
1.1/2"	180	315	125
2"	180	342	160
3"	180	390	240
4"	230	430	240
5"	230	450	250
6"	230	460	285
8"	250	510	345
10"	300	520	405
12"	450	550	432
14"	450	565	460



Ultrasonic Water Meter

SPECIFICATION

- **Line size** : 15 mm to 600 mm
- **Body Material (Inline)** : Plastic, Brass , CS/MS, SS316 , SS304
- **Flange Material (Inline)** : Plastic, Brass , CS/MS, SS316 , SS304
- **End Connection** : Flanged end, Thread-end
- **Power supply** : 3.6V Lithium Battery, 230V AC, 24V DC
- **Outputs** : 4 - 20 mA, Pulse,
- **Accuracy** : $\pm 1\%$ of measured value
- **Measuring Unit** : Cubic Meters (m³) , Litres (L) , Gallons (GAL)
- **Data Logger** : Available / NA
- **Communication** : Modbus RS 485, LORA/IOT, GSM/GPRS
- **Protection class** : IP 67/IP 68
- **Electronic Enclosure** : Fibre Glass Plastic, Die Cast Aluminium , CS/MS



APPLICATION :

- The solves the problems of traditional water meters such as easy
- Blockage , Idle running
- Urban water supply pipelines,
- District tables, Water intake monitoring
- Farmland irrigation
- Industrial and agricultural sites.

FEATURES

- Dual-channel ultrasonic probe is used
- With electronic lead sealing function
- Intelligent power-saving design
- Communication interface modes: RS485 interface, MBUS, infrared interface, NB-IOT, LORA WAN
- Storage of 24-month data
- Built-in lithium battery
- AMR and IOT Ready for the water SCADA



DN80 R160 E1 H/V
PN16 T50 U10/D5 IP65
S/N: 2110211838

Ultrasonic level transmitter

SPECIFICATION

- **Range** : 6 m
- **Blind Spot** : 0.4m
- **Error difference** : $\pm 0.3\%$ F. S
- **Display** : OLED English menu (with self-illuminating)
- **Min.** 1mm
- **Keyboard** : Three-digit patch keys
- **Frequency** : 20 to 350KHz (varies by model size)
- **Optional power supply**: DC18-28V
- **Power** : <0.6W
- **Output (optional)** : 4 to 20mA
- **Instrument material** : ABS engineering plastics
- **Dimensions** : $\Phi 75\text{mm} \times 132\text{mm} \times G1 \frac{1}{2}$ □
- **Installation interface** : G1 1/2 tube thread with gong ring (diameter 47mm) □



APPLICATION :

- Water Level Measurement
- Proximity detection
- Robot range Finder
- Sedimentation pool
- Coal washing Process
- Water treatment Plant
- Waste water Treatment Plant
- Industry Process control
- Obstacle detection
- Diesel Level Measurement
- Chemical level measurement

FEATURES

- High Precise
- Non-Invasive
- Strong Anti-interference
- Automatic Temperature Compensation
- Selectable Output
- Sustainable improved long term stability
- Economy cost effective
- Easy to install
- Ultrasonic Probe is nano coated anti condensate
- Flame Proof



PIEZOMETER

Piezometer is measures the ground water level and also record the data. Data can be displayed through memory card or USB pen drive .we can also display the data in our PC or Mobile through GSM.It is mainly used for measuring the water level of borewell & rivers.

SPECIFICATION

Sim Card Supporting : gsm Sim

Power Consumption : 12v Dc

Connecting Wires : 2.5mm

Storage : cloud Based

Format : excel Or Customized

APPLICATION :

Piezometer is mainly used for measuring the Level Of Ground Water level of Borewell & Rivers.

TECHNICAL DATA

Output : 4-20mA or Customization

Maximum Range : Upto 400 meters

Applicable Media : liquid or water

Accuracy : $\pm 0.5\%$ FS

Housing Material : SS

Cable Material : PTFE

Power supply : 12V dc

Process Temperature : -20 to 85°C

Hanging : wall Mounted

Storage : upto 32 GB

Online Storage : Cloud based Storage

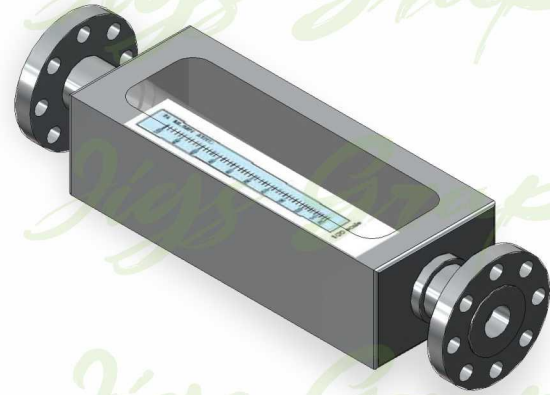


ROTAMETER

GLASS TUBE ROTAMETER

Use for measuring rated flow of liquid gases

Available in C.S., SS 304, SS 316,
Poly Propelene, PTFE Lined, Flanged &
Screwed, High & low flow switches. Linear
scale having accuracy of $\pm 2\%$ FSD.
Ranges between 30 to 25000 LPH of water



BY-PASS ROTAMETER

Available in 50 to 400 NB.

Available in SS 304, SS 316 & P.P.
Accuracy $\pm 2\%$ FSD. The flowrate through
the Rotameter is proportional to the
pressure drop across the orifice plate

ACRYLIC BODY ROTAMETERS

Use for water, air & all type gas

Available from 15 NB to 100 NB pipe size And ranges between
30 to 40000 LPH of Water at ambient temperature. Accuracy
 $\pm 2\%$ FSD. High & low flow switches on request



METAL TUBE ROTAMETERS

Use for Liquid, gases, steam and Vapour

Under critical operating Conditions.
Available in SS 316 / SS 304 / PP And
Flanged From 25 NB to 100 NB Pipe Size.



LEVEL INDICATOR & SIGHT GLASS

FLOAT & BOARD TYPE LEVEL GAUGE

Use for chemical storage tank

Available in C.S., SS 316, & P.P. Mainly used for storage tank of oil, Fire / DM Water, Acids, Furnace, Lube & Vegetable Oil etc.



SIDE & TOP MOUNTED MAGNETIC LEVEL INDICATOR

Use for Benzene, Alcohols, Acid, Alkalis, Liquefied gases like SO₃, LPG, CL₂, etc.

Available in SS With PTFE Lined, S.S. & P.P. Available in Capsule or Roller Design. High and low level switching can be offered

TUBULAR LEVEL INDICATOR

Use for Atmospheric or below 5 Kg/cm Pressurised Tank.

Available in M.S., S.S., P.P., MS or SS With PTFE Lined Max. 3000 mm length single piece. Offset constructed isolation valve on Request. Available in Aluminium, Acrylic, S.S. Linearly Scale.



LEVEL SWITCHES & MANOMETERS

SIDE MOUNTED LEVEL SWITCH

Use for fitting into tanks of process vessels for controlling liquid levels for preventing tank overflow.

Available in .P.P. & SS 316, Weather Proof (IP-65) or Flame Proof to IIA, IIB as per CMRS, Minimum 50 NB Flange to any Size To Control Pump Running .



TOP MOUNTED LEVEL SWITCH

Single, Bilevel and multilevel Sensing With potential free contacts.

Steam mounting : Stainless Steel.

Float : SS 316, P.P.,

Mounting : Flanged, Threaded in MS / SS or TC Joint

DISPLACER TYPE LEVEL SWITCHES

For High Temperature (Max. 350 Deg)

Pressure : Vacuum to 15 Kg/Cm2 Mounting : Min. 80 NB to 300 NB. Suitable for High Temperature Two Displacer available for pump control. External Cage on request



CONDUCTIVITY TYPE LEVEL SWITCH

Ideal for use in conductive liquids, i.e. Water non Foaming Liquids.

Low Cost with easy Installation Available upto 30 Meter & Temp. Upto 200 Deg Ca





HARSH PROCESS CONTROL

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