

Introduction

ACORN Make **MagWM 600** is an Innovative Electromagnetic Flow Meter designed especially for remote water & liquids in various processes which are corrosive and with solid impurities.

Working Principle

Based on 'Faradays Law' of electromagnetic induction It is derived that: $Q = K \times e$. K is a meter constant.

So, the induced emf is proportional to the volume flow rate.

Features & Benefits

ACORN Make MagWM600

Gives several advantages such as:

- No moving parts and no obstructions in flow path.
- Sizes from 1/2" (DN15) to 4" (DN100) depends on coupling.
- Compatible design for Union joints or sandwich fittings.
- Remote Indicator Mounting (distance of Up to 25 mtrs).
- Total Flow & Instantaneous Flow Indication.

Specifications

Signal Converter:	
Power Supply	24 Vdc or 230 Vac (optional) (+/- 10%).
Power Consumption	12VA max.
Key Board:	Membrane Key Board.
Programmable parameters	➤ Volume Units: ltrs, M3, ML, C., BG; ➤ Volume Units: sec, min, hrs; ➤ 4 to 20 mA range; % Low flow cut of; Pipe Dia ; Discharge range; Comm. Parameters; Calibration Constant; Filter Constant etc.
Analog Output	4 to 20 mA into 600 ohm (max) load - (Isolated).
Data Communication	RS 485 MODBUS RTU or ASCII Protocol (Isolated) optional.
Flow Sensor & Flow Indicator Specs:	
Mounting	Sensor Mounted or Remote Electronics (with Special Signal Cable).
Medium Conductivity	>10 uS/cm.
Pipe Size	1" (25 NB) to 4" (100 NB), Higher Sizes on request.
MOC	➤ Sensor Housing : SS 304
	➤ Electrodes : SS 316 or Hastalloy-C optional
	➤ Lining : PVC or TEFLON
Pipe Connection	Union or Sandwich (optional & depending on size)
Pressure Rating	Pressure rating : 10 bar Std, Higher on request
Operating Temp.	Medium: 0 to 50 Deg. C, for Instrument: 0 to 55 Deg. C
Protection Class	IP 65 or IP 67 optional

Head Mounted



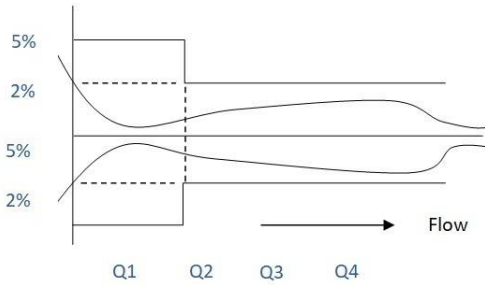
Remote Mounted





Error Curve:

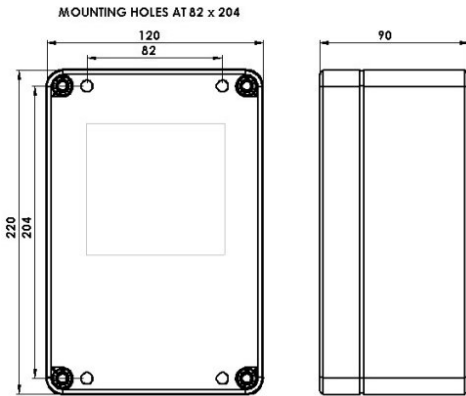
Flow Discharge Table:



Size ::	>>>	1/2"	3/4"	1"	1 1/2"	2"
Discharge Qmin (Q1)	m3 / hr	0.03125	0.05	0.07875	0.2	0.3125
Discharge Qtrans(Q2)	m3 / hr	0.05	0.08	0.125	0.32	0.5
Discharge Qper (Q3)	m3 / hr	2.5	4	6.3	16	25
Discharge QoL (Q4)	m3 / hr	3.125	5	7.875	20	31.25

Dimensions:

WALL MOUNTING INSTRUMENT:



APPLICATION:

- Sugar Industry
- Water Treatment plant
- Raw water metering & Batching
- Food and drugs industries

Size	L	H	W
2"	175	155	81
1 1/2"			
1"			
3/4"			
1/2"			

Note* Specifications may change due to continued development efforts. Custom modifications will be undertaken to trim the spec.

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