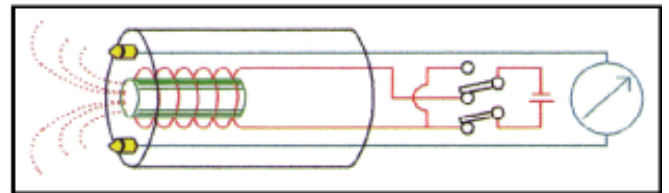


# MAGNUM IC

Universal Digital Flowmeter

Magnum IC is a magnetic flowmeter for measuring the flow of conductive liquids in pipes. The sensor creates a pulsating, alternating magnetic field on the inside of a pipe. The liquid in the pipe will move through this magnetic field and generate a signal current proportional to its velocity. This information is collected by the electrodes and then processed by the Magnum's microprocessor to provide the user with the desired flow information.



Magnum IC houses a full featured digital transmitter inside the sensor housing itself. All features of the basic flowmeter, plus a number of possible optional additions, including pressure and temperature sensing, as well as data-logging, are enclosed within the compact submersible package.



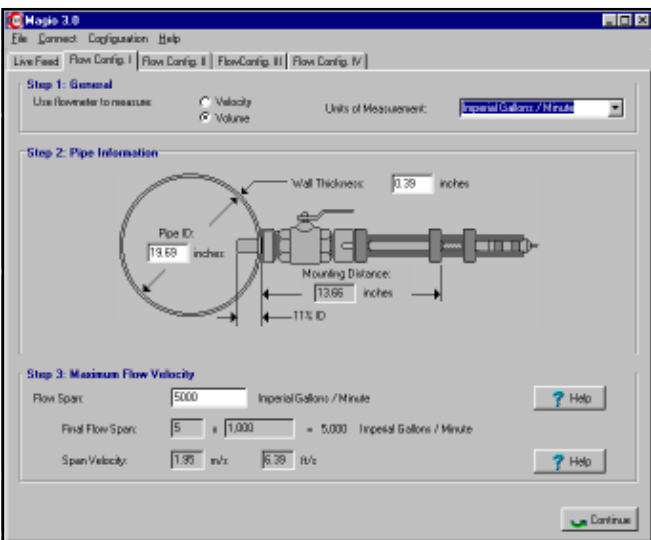
MSR Magmeter  
P.O. Box 32170  
Edmonton, Alberta, Canada  
T6K 4C2





Magnum is an entirely digital instrument. All internal functions of the flowmeter are controlled by software. Setup and configuration for applications are handled by the new Magio 3.0 software interface, which runs on Win95/98 based PCs. Setup can be done in the field on a laptop or in the office at a desktop PC.

Once the setup is completed the instrument can be installed. The only requirements are cabling for power in (12 VDC) and signal out (4-20mA). This makes it ideally suited for SCADA type applications which may require numerous measurement points at remote locations. The Magnum IC also features optional hardware for data-logging, as well as additional inputs, such as pressure and temperature.



## MAGNUM IC

### Universal Digital Flowmeter

01	online service mounting mechanism	
02	mounting base	316 Stainless Steel
03	mounting nipple	anodized aluminum
04	o-rings	Buna or Viton
05	lock nut	galvanized brass
06	position nut	galvanized brass
07	position ring	SS316
08	snap ring	spring steel
09	sensor type	cylindrical probe
10	sensor body	SS316 or other
11	electrode type	conical protruding
12	electrode mat.	Hastelloy
13	sensor tip	Kynar or PEEK
14	grounding type	integral body
15	internal transmitter	micro-processor
16	analog output	0/4 to 20mA
17	impedance	800 ohm
18	protection	isolated
19	pulsed output	pulse/unit
20	communication	RS 232
21	signal quality	signal/noise ratio
22	indications	insertion depth
23		reverse flow
24		empty pipe/air
25	user selectable	engineer units
26		pipe dimension
27		flow rate span
28		auto ranging
29		digital filtering
30	power supply	12 V DC
31	enclosure class	NEMA 4x, 6P
32	cable connection	water tight plug
33	options	additional inputs
		pressure
		temperature
34		data-logging
		20,000. samples
35	utilities	output simulation
36	line size	3 up to 120 inch
37	line material	all types
38	connection	2 inch NPT
39	connection valve	2 inch full bore
40	liquid	conductive
41	max. velocity	unlimited
42	min. velocity	.25 inch/s
43	temperature	up to 200 deg. F
44	pressure	up to 1500 psi
45	precision	0.5% of velocity
		at 100% of range
46	repeatability	99. 5%



EN 50081-1 (Emission)  
EN 50082-2, Performance Criterion C (Immunity)



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