



FEATURES

- Easy setup
- Minimal straight pipe
- Mounted or remote rate & total
- Tamper-evident seal
- NSF-61 approved
- IP68 rated

9001:2008 CERTIFIED COMPANY

THE RIGHT METER FOR

- Water & wastewater
- Municipal
- Treatment plants
- Pump stations
- Packaged plants
- Filtration systems
- Reclaimed Water





GENERAL INFORMATION

The **iMAG-Series** is the most economical flanged electromagnetic flowmeter on the market. It is used in 3" to 12" pipe in municipal or industrial water, waste and reclaimed water, pump stations and packaged plant applications. The iMAG has no moving parts and electrodes are designed to discourage fouling. This magmeter requires no maintenance in applications where debris would impede mechanical meters. There are no parts to wear out. Minimal straight pipe requirements allow iMAG-Series meters to be used in piping configurations where there is little space between the meter and an elbow.

iMAG-Series meters are rated IP68 for applications where the meter may be under water up to a depth of 10 feet (3 meters) for prolonged periods of time.

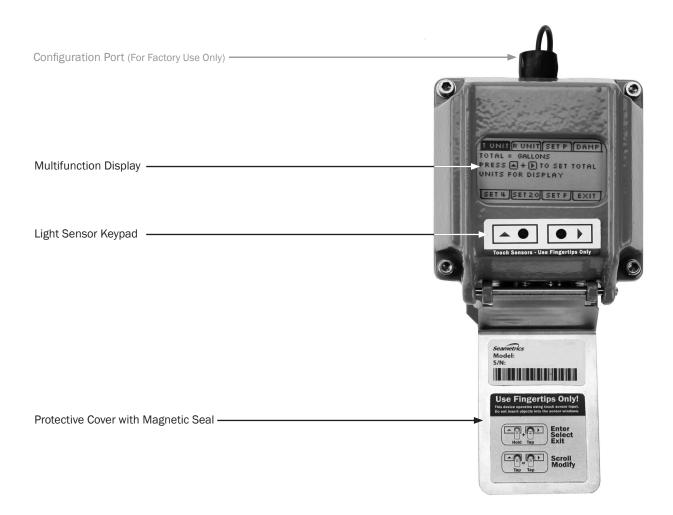
Rate and total indication are standard. Rate and total units and pulse output are settable via the front panel touch key pad by

the user. Bi-directional flow is standard. Forward, reverse and net flow can be read from the display. If forward and reverse flow data needs to be sent to another device, Modbus output is required.

The iMAG 3600 and 4600 can be externally powered with 9-36 Vdc at 30 mA average. The 4600 is also available in a battery powered version. (Battery not available on 3".)

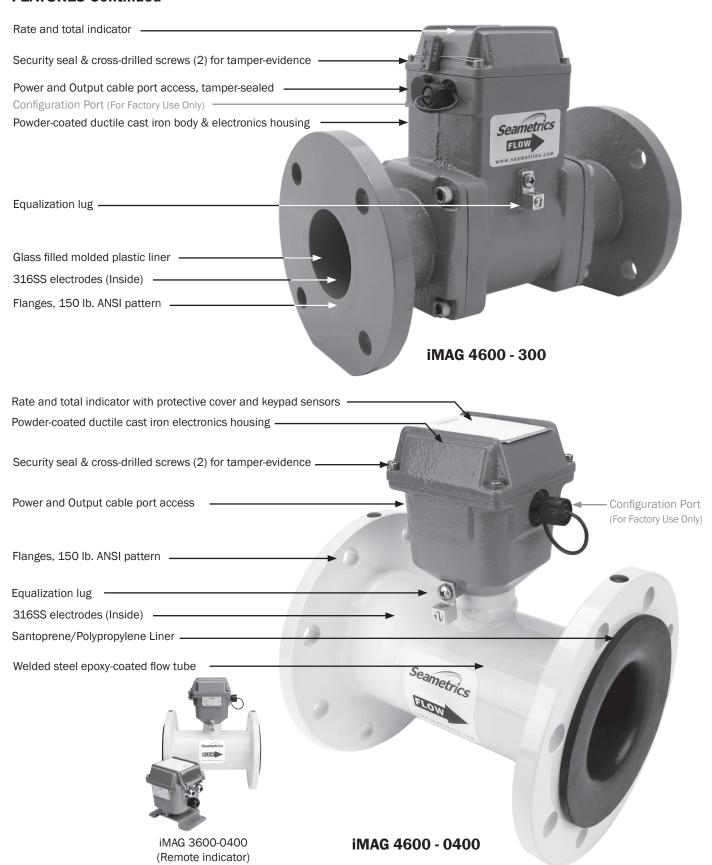
The standard 20-foot (6 meter) cable also provides outputs for use with a variety of Seametrics and other displays and controls for remote reading, data logging and telemetry applications. 4-20mA passive current loop and high frequency outputs are optional on the externally powered models. Pulse output is standard on the battery powered model. The iMAG 3600 remote display meter can be supplied with an optional internal AC power supply.

FEATURES





FEATURES Continued





SPECIFICATIONS*

Pipe Sizes		3",4", 6", 8", 10", 12"							
Flanges		150 lb. ANSI pattern							
Pressure		150 psi (10.3 bar) working pressure							
Temperature	Operating	10° to 130° F (-12° to 54° C)							
	Storage	-40° to 158° F (-40° to 70° C)							
Accuracy		+/- 1% of reading +/- 0.025% of full	-scale flow from low f	low cutoff to maximun	n flow rate of 10 m/sec				
Low Flow Cutoff		0.5% of maximum flow rate							
Materials	Body (3" Only)	Ductile cast iron, powder-coated							
	Body (4"-12")	Welded steel, epoxy-coated							
	Liner (3" Only)	Noryl®							
	Liner (4"-12")	Santoprene/Polypropylene							
	Electronics Housing	Ductile cast iron, powder-coated							
	Electrodes	316 stainless steel							
	O-ring (3" Only)	EPDM							
Display	Туре	128x64 dot-matrix LCD							
	Digits	5 Digit Rate		8 Digit Total					
	Units	Rate Volume Units	Rate Time Units	Total Volume Units					
	Please Note: All iMAG meters are factory set for gallons per minute (GPM) rate and gallons total. If other units are required, they can be programmed in the field.	Gallons Liters Cubic Feet Cubic Meters Million Gallons Mega Liters Imperial Gallons Million Imperial Gallons Barrels (42 gallon)	Second Minute Hour Day	Gallons Gallons x 1000 Million Gallons Liters Kilo Liters Mega Liters Cubic Meters Barrels (42 gallon)	Cubic Meters x 1000 Cubic Feet Cubic Feet x 1000 Million Cubic Feet Imperial Gallons Imperial Gallons x 1000 Million Imperial Gallons				
	Bi-directional ¹	Forward Total, Reverse Total, Net Total							
Power	DC Power	9-36 Vdc @ 250 mA max, 30 mA average							
	AC Power ²	85-264Vac, 50/60Hz, 0.12A							
	Battery ³	Two lithium 3.6V 'D' batteries, replaceable. (Not available on 3")							
Pulse Frequency	Signal	Current sinking pulse, isolated, 36							
Output	Pulse Rates	User-scalable from 0.1 to 99,999.9 volume units/pulse. Pulse width is one-half of pulse period with m mum pulse width of 2.5ms, 200 pulses/sec max							
Options	4-20mA Current Loop	Isolated, passive, 6-36Vdc, error less than +/- 0.1% of pulse/frequency output, HART compliant							
	Digital Output	Isolated, open collector, 36Vdc @ 10mA max., frequency output at max. flow selectable as 0.5, 1,2,5 or 10kH							
	Serial Communications	Isolated, asynchronous serial RS485 (Reconfigurable for RS232 or 3.3V CMOS), Modbus RTU protocol							
Cable	Control Cable	Six-conductor water-blocked cable, polyurethane jacket, 20ft (6m) standard length for power, pulse frequency or optional outputs (optional lengths up to 100' available)							
	Remote Display Cable (iMAG 3600)	33ft (10m) standard length (optional lengths up to 100' available)							
Conductivity		>20 microSiemens/cm							
Empty Pipe Dete	ction	Hardware/software, conductivity-based							
Regulatory		(€ (EN 61326) pending, NSF-61							
Environmental		IP68 to 10ft (3m) depth							

^{*}Specifications subject to change. Please consult our website for the most current data (www.seametrics.com).

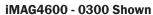
¹ If forward and reverse flow data needs to be sent to another device, either the -ADDX, -DDDX or Modbus output is required.

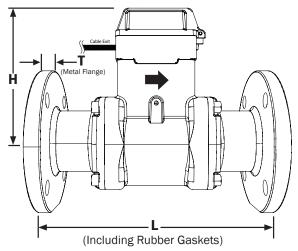
 $^{^2}$ iMAG3600 only, iMAG4600 requires external AC power supply

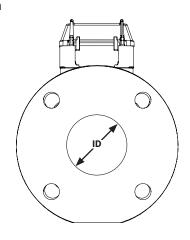
³iMAG4600 only



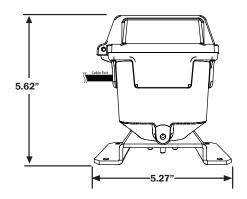
DIMENSIONS

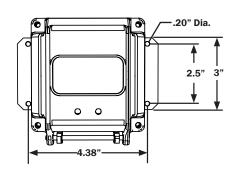


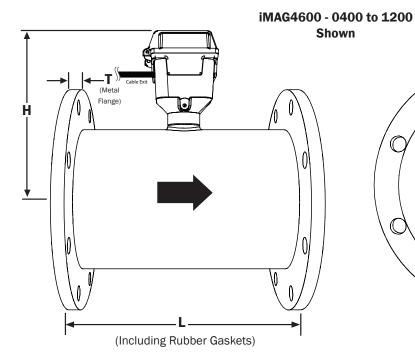


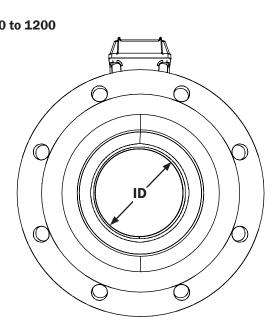


iMAG3600 Remote Shown











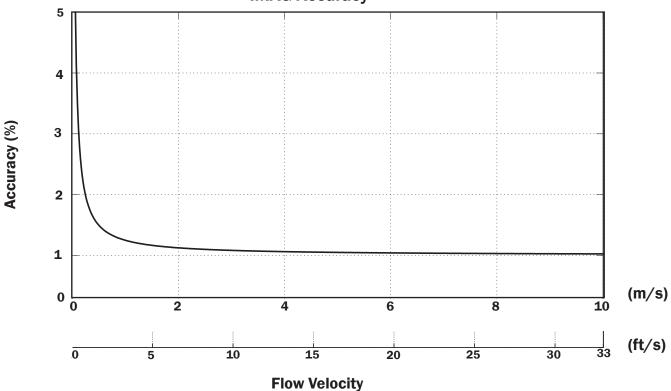
iMAG Dimensions

iMAG	L		н		Т		ID		Shipping Weight	
Meter Size	inch	mm	inch	mm	inch	mm	inch	mm	pounds	Kg
3"	12.0	305	6.80	173	.68	17.3	2.60	66.04	41	19
4"	10.24	260	8.12	206	.62	20.9	3.12	79.25	35	16
6"	12.27	312	9.22	234	.69	23.3	5.05	128.27	50	23
8"	14.24	362	10.22	260	.69	23.3	6.44	163.58	72	33
10"	18.18	462	11.22	285	.69	23.3	8.61	218.69	128	58
12"	19.68	500	12.28	312	.81	20.6	10.55	267.97	170	78
Flanges	Standard ANSI 150 lb. drilling pattern						Cable 1 lb.			

FLOW RANGE (3" - 12")

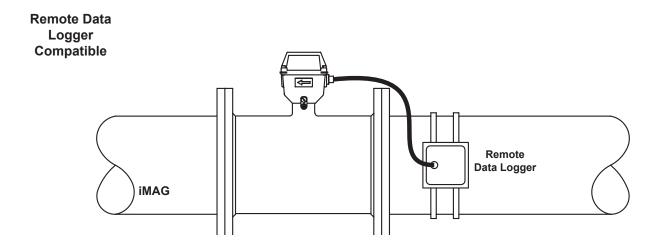
Pipe Size (Inches in diameter)	3"	4"	6"	8"	10"	12"
Max Flow Rate (Gallons/Minute)	723	1285	2891	5140	8031	11565
Cut-off (min) Flow Rate (Gallons/Minute)	3.62	6.43	14.46	25.70	40.15	57.82
Max Flow Rate (Liters/Second)	46	81	182	324	507	730
Cut-off (min) Flow Rate (Liters/Second)	0.23	0.41	0.91	1.62	2.54	3.65
Max Flow Velocity (Meters/Second)	10	10	10	10	10	10



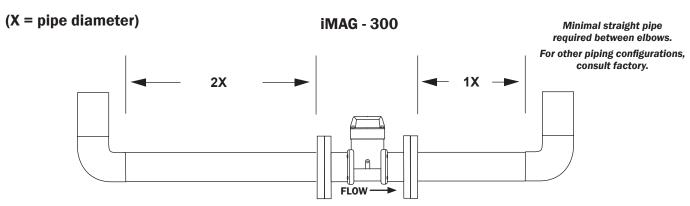


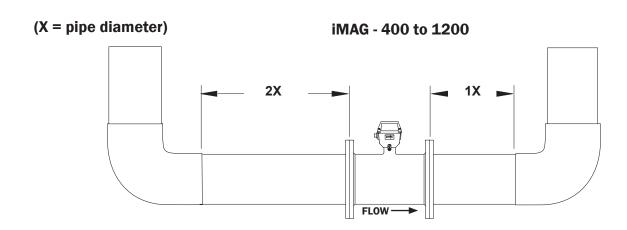


OUTPUT CAPABILITIES



STRAIGHT PIPE RECOMMENDATIONS







HOW TO ORDER

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iMAG 3600 -			
iMAG 4600 -			

iMAG 3600 (Remote Indicator) Options									
Size	Size		3600 Power and Communications		wer/Output Cable	5 Sensor Cable			
-0300	3"	-F1 ANSI 150#	-ADDX	AC Power, 2 Digital Outputs	-000	No Cable	-010	1 0 meter (33')¹	
-0400	4"		-ADLX	AC Power, Current Loop, Digital Output	-006	6 meter (20') ¹	-020	20 meter (66')	
-0600	6"		-APLX	AC Power, Pulse, Current Loop	-010	10 meter (33')	-030	30 meter (100')	
-0800	8"		-APXX	AC Power, 1 Pulse Output	-020	20 meter (66')			
-1000	10"		-ASSX	AC Power, Modbus	-030	30 meter (100')			
-1200	12"		-АРНХ	AC Power, Pulse, HART	-045	45 meter (150')			
			-DDDX	DC Power, 2 Digital Outputs	-060	60 meter (200')			
			-DDLX	DC Power, Current Loop, Digital Output					
			-DPLX	DC Power, Pulse, Current Loop					
			-DPXX	DC Power, 1 Pulse Output					
			-DSSX	DC Power, Modbus					
			-DPHX	DC Power, Pulse, HART					

iMAG 4600 (Internal Indicator) Options								
Power/Output Cable								
No Cable⁴								
6 meter (20')¹								
10 meter (33')								
20 meter (66')								
30 meter (100')								
45 meter (150')								
60 meter (200')								
30 n								

¹6 meter (20') power cable (iMAG 3600 or iMAG 4600) and 9 meter (30') sensor cable (iMAG 3600 only) are included at no additional charge.

² All iMAG meters are factory set for gallons per minute (GPM) rate and gallons total. If other units are required, they can be programmed in the field.

³ If one of these options is seleceted, one of the power/output cable options is required.

⁴ Battery power configuration only.