

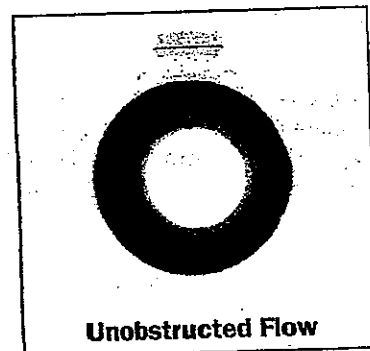
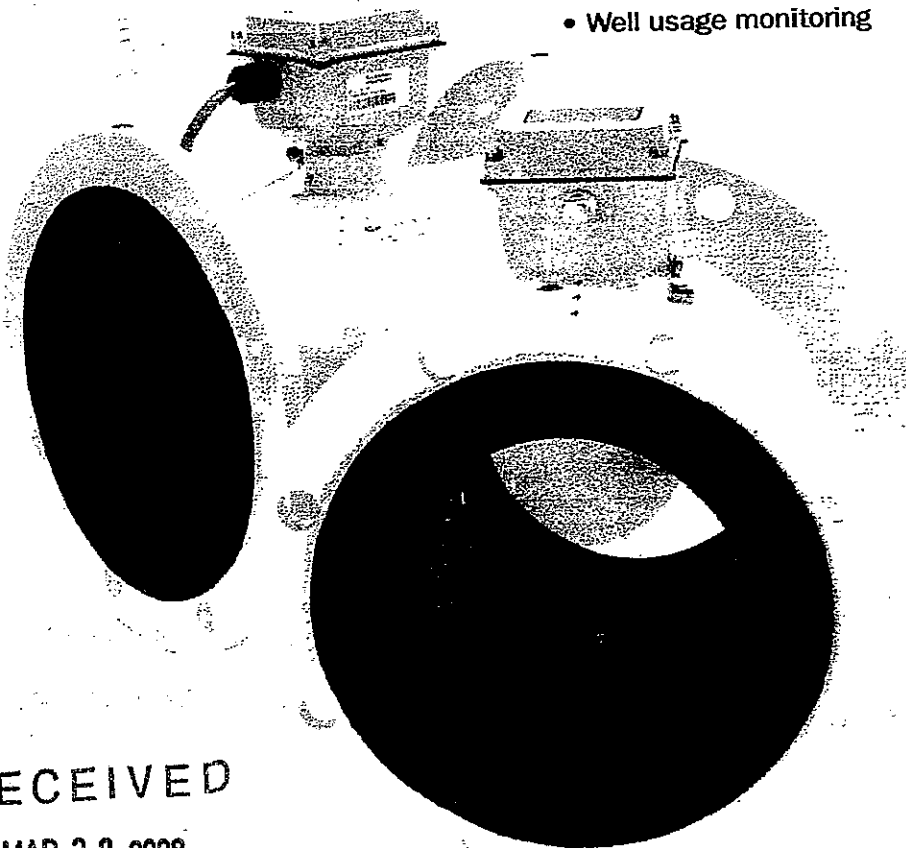


APPLICATIONS

- Irrigation
- Chemigation
- Agricultural automation
- Well usage monitoring

FEATURES

- Simple as a mechanical meter
- No moving parts
- Minimal straight pipe required
- Battery power standard; External power optional
- Solar compatible
- Built-in rate & total indicator
- Built-in pulse output for data-logging or telemetry
- Tamper-evident seal



RECEIVED

MAR 28 2008

DEPARTMENT OF
WATER RESOURCES

GENERAL INFORMATION

The AG2000 is a spool-type electromagnetic flowmeter for use in irrigation applications in 4" to 8" pipe. With no moving parts, these meters have unobstructed flow and are resistant to wear from debris found in ground or surface water. There are no bearings or propeller to wear out. Minimal straight pipe requirements allow AG2000 meters to be used in piping configurations where there is little space between the meter and an elbow. In chemigation applications, the meter should be installed upstream of the injection line or enough downstream to allow thorough mixing of fluids before the meter (see Tech Bulletin on SeaMetrics website Downloads page).

The standard AG2000 is battery powered. Where an external power source is available, the AG2000 can be optionally converted to 7-24 Vdc, with the batteries then serving as backup in case of power failure. This configuration will

prolong battery life indefinitely.

The meter comes with built-in pulse output (requires optional output cabling) for data logging or telemetry. Several pulse rates are available. The AG2000 is compatible with the SeaMetrics Data Logger available as a remote mount (DL75W) or secure meter mount (DL75AG). A SeaMetrics DL420W can be added if remote rate/total reading is desired, or an AO55W if a 4-20 mA (analog) signal is required.

The AG2000 has a seal wire to protect against unauthorized access. The seal can be broken to change units of measure, replace the battery pack, or to field-install a power/output cable. The optional cable can be factory- or field-installed for applications where external power is available and/or pulse output is needed.

FEATURES

Rate and total indicator
Powder-coated diecast-aluminum electronics housing

Cross-drilled screws (2) for tamper-evidence
Tamper-evident security seal
Power/Output cable port access, tamper-sealed



Equalization lug

Welded steel epoxy-coated flow tube

316SS electrodes

Dual durometer rubber liner

Flanges, ANSI 150 lb. drilling

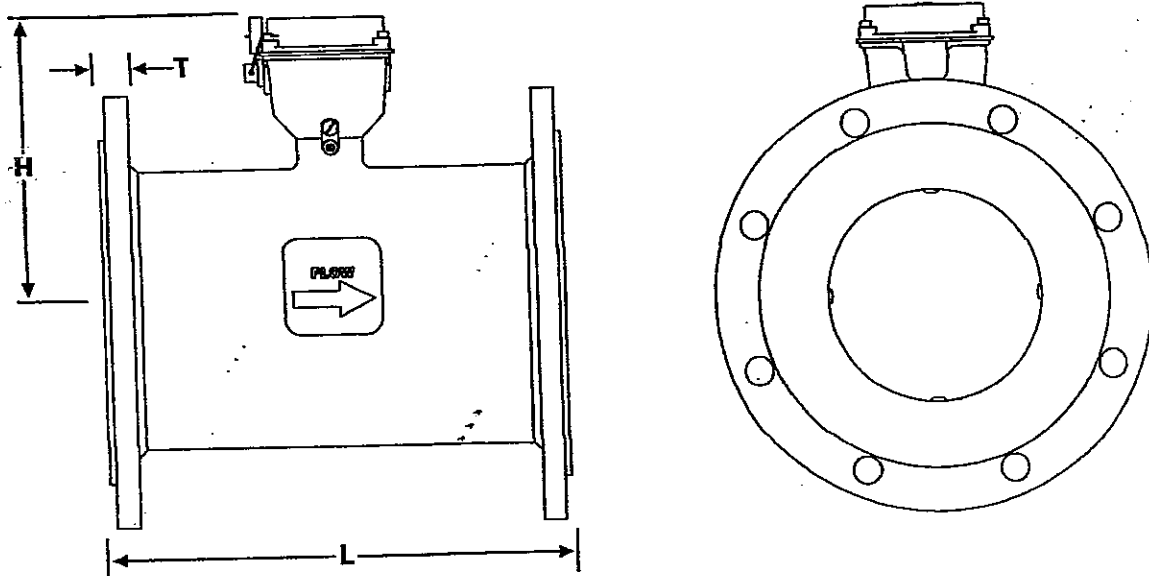
SPECIFICATIONS

IONS

Pipe Sizes	4", 6", 8"		
Fittings	Flanges, ANSI 150 lb. drilling		
Pressure	150 psi (10.3 bar) working pressure		
Temperature Range	10°- 130° F (-12°- 54° C)		
Accuracy	+/-1% at 100% to 10% of reading; +/-2% at 10% of reading to cut off		
Materials	Body	Welded steel, epoxy-coated	
	Liner	Dual durometer rubber	
	Electronics Housing	Diecast aluminum, powder-coated	
	Electrodes	316 stainless steel	
Display	Rate	Total	
	Digits	6 8	
	Units	Gallons/Minute	Acre-Feet; Acre-Inch; Gallons x 1000; or Cubic Feet
		Cubic Feet/Second	Cubic Feet
		Cubic Feet/Minute	Acre-Feet
		Liters/Second	Cubic Meters; or Megaliters
		Liters/Minute	Cubic Meters
		Cubic Meters/Minute	Cubic Meters
Security	Cross-drilled screws and tamper-evident seal		
Power	2 Lithium 3.6V "D" batteries, replaceable, 5 year life		
	With external power option (uses 7-24 Vdc, 30 mA), Lithium batteries serve as backup in power failure (10 year life)		
Pulse Output (with optional cable)			
	Signal	Current sinking pulse, opto-isolated, 24 Vdc, 10 mA max	
	Pulse Rates	10 units/pulse (default); 1000 units/pulse; High Frequency (for details, refer to AG2000 High Frequency Output Technical Bulletin on our website)	
Empty Pipe Detection	Hardware/software, conductivity-based		
	NEMA 4X standard short-term immersible option		

NEMA 4X standard, short-term immersion option

DIMENSIONS

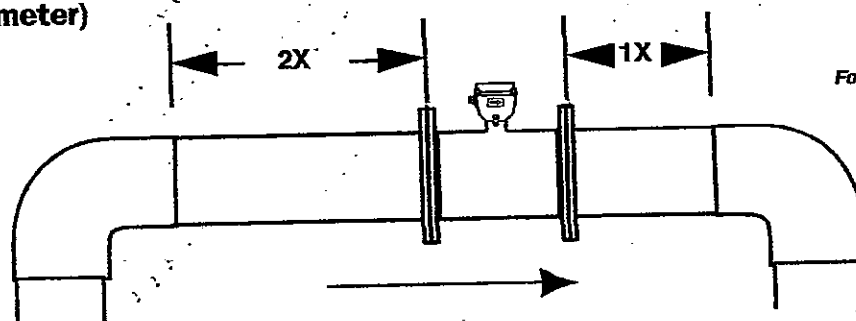


AG2000

Meter Size	L		H		T		Shipping Weight	
	inch	mm	inch	mm	inch	mm	pounds	Kg
4"	10.24	260	7.0	178	.83	20.9	32	14.5
6"	12.27	312	8.1	206	.92	23.3	47	21.3
8"	14.24	362	9.1	231	.92	23.3	71	32.2
Flanges	Standard ANSI 150 lb. drilling						Cable 1 lb.	

STRAIGHT PIPE RECOMMENDATIONS

(X = pipe diameter)



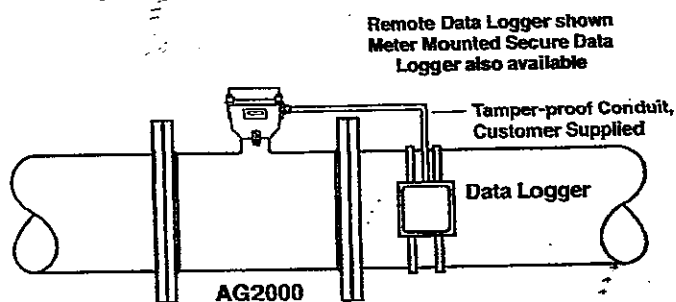
Minimal straight pipe
required between elbows.
For other piping configurations,
consult factory.

FLOW RANGE

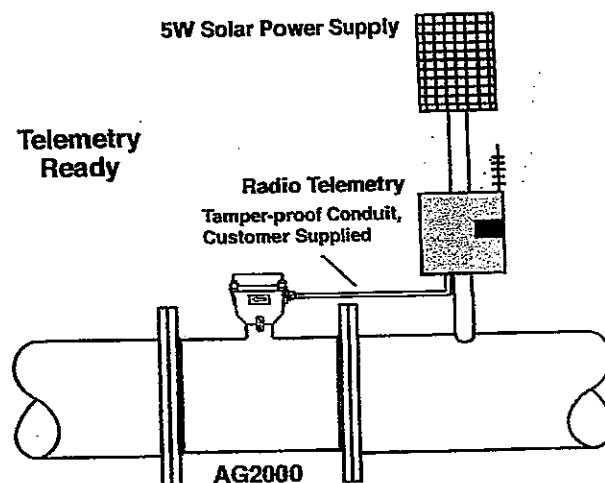
Flow Range	4"		6"		8"	
	Gal/Min	Liter/Sec	Gal/Min	Liter/Sec	Gal/Min	Liter/Sec
Minimum	12	.75	32	2	60	3.8
Maximum	500	31.5	1,200	75.7	2,200	138.8

OUTPUT CAPABILITIES

Data Logger Compatible



Telemetry Ready



HOW TO ORDER

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MODEL	SIZE	OPTIONS	PULSE RATE	UNITS																																	
AG2000	4" = -400	Factory-Installed Power/ Output Cable, 6m (20 ft) = -11/6	(With Opt -11) 10 Units*/Pulse = Default	<table><tr><th>RATE</th><th>TOTAL</th><th>ORDER</th></tr><tr><td>Gal/Min</td><td>Acre Ft</td><td>= GPM/AF</td></tr><tr><td>Gal/Min</td><td>Acre Inch</td><td>= GPM/AI</td></tr><tr><td>Gal/Min</td><td>Gal x 1000</td><td>= GPM/GT</td></tr><tr><td>Gal/Min</td><td>Cubic Feet</td><td>= GPM/CF</td></tr><tr><td>Cu Ft/Sec</td><td>Cu Ft</td><td>= CFM/CF</td></tr><tr><td>Cu Ft/Min</td><td>Acre Ft</td><td>= CFS/AF</td></tr><tr><td>Liters/Sec</td><td>Cu Meters</td><td>= LPS/CM</td></tr><tr><td>Liters/Sec</td><td>Megaliters</td><td>= LPS/ML</td></tr><tr><td>Liters/Min</td><td>Cu Meters</td><td>= LPM/CM</td></tr><tr><td>Cu Meter/Min</td><td>Cu Meters</td><td>= CMM/CM</td></tr></table>	RATE	TOTAL	ORDER	Gal/Min	Acre Ft	= GPM/AF	Gal/Min	Acre Inch	= GPM/AI	Gal/Min	Gal x 1000	= GPM/GT	Gal/Min	Cubic Feet	= GPM/CF	Cu Ft/Sec	Cu Ft	= CFM/CF	Cu Ft/Min	Acre Ft	= CFS/AF	Liters/Sec	Cu Meters	= LPS/CM	Liters/Sec	Megaliters	= LPS/ML	Liters/Min	Cu Meters	= LPM/CM	Cu Meter/Min	Cu Meters	= CMM/CM
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Cu Meter/Min	Cu Meters	= CMM/CM																																			
	6" = -600		1000 Units*/Pulse = -PxK																																		
	8" = -800	Factory-Installed Power/ Output Cable, 15m (50 ft) = -11/15	High Frequency = -HF																																		
AG2000																																					

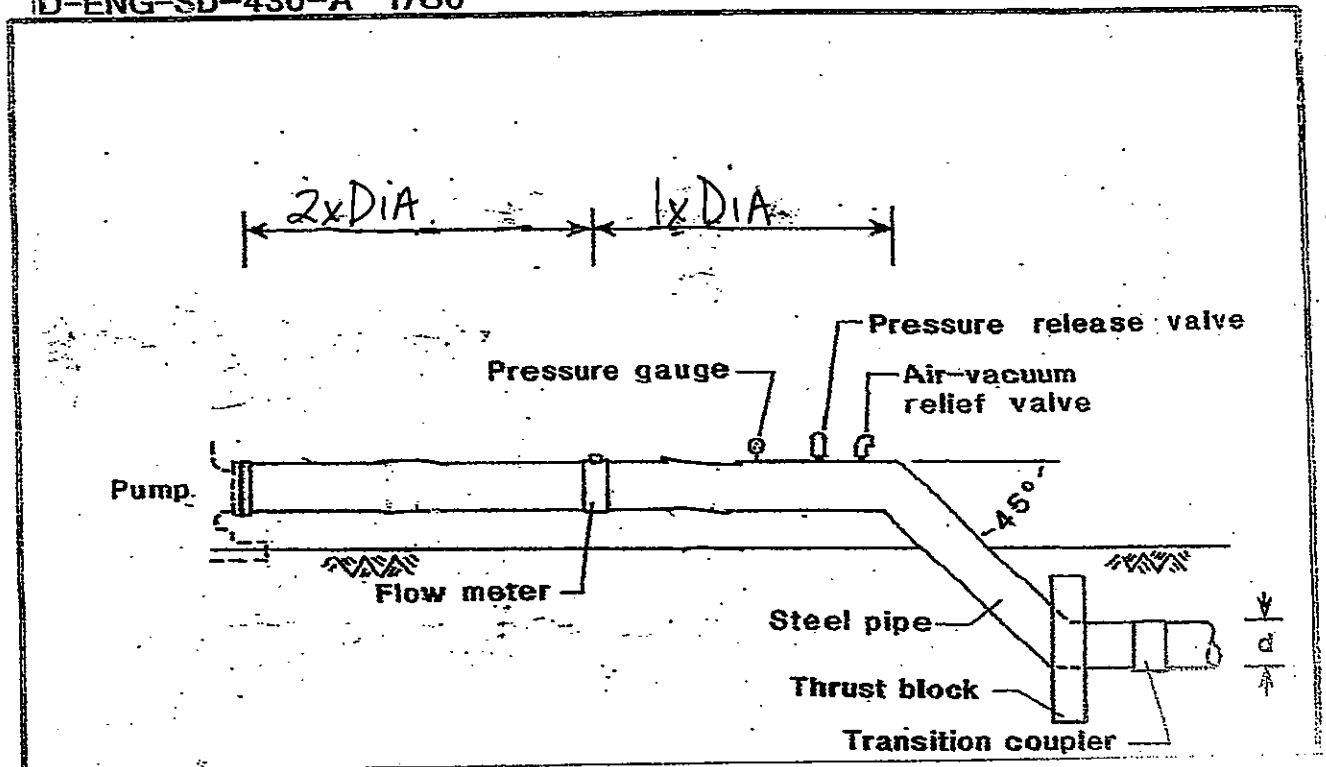
(*Units = Gal or Liter depending on Rate/Total unit selection)

Consult factory for additional units

ACCESSORIES

Remote 4-20 mA (analog) signal = AO55W	Post-Factory Power/Output Cable, 6m (20 ft) = DC30	Grounding Rings (not needed for most applications):
Remote Rate and Total Indicator = FT420W	Post-Factory Power/Output Cable, 15m (50 ft) = DC35	4" = 31090
Data Logger (remote mount) = DL75W	Dual Power Supply, 115 Vac, 12/24 Vdc = PC42	6" = 31091
Data Logger (secure meter mount) = DL75AG	External Power Supply = Consult Factory	8" = 31092
Weather Guard = 31388	Solar Panel Kit, 5 Watt = RSP5	

SUPPLIER CONTACT INFORMATION



This is what we propose to do
 on our River pumps to meet your
 Requirements. METER to be installed PER
 Seametrics Recommendations on Lamont
 Pumping Station.