AG3000 SERIES FLANGED MAGMETER





Features

- Easy setup
- Minimal straight pipe
- Mounted or remote display
- Tamper-evident seal
- IP68 rated
- No moving parts
- Five year battery life
- Telemetry ready for wireless meter reading. Solutions available now by our sister company SigNALFIRE

Contact Your Supplier

The **AG3000** Series is a spool-type electromagnetic flowmeter for use in irrigation applications in 2" to 12" pipe. With no moving parts, these meters provide unobstructed flow and are resistant to wear from debris found in ground or surface water. Little maintenance is required because there are no bearings to wear out or propellers to stop turning. Minimal straight pipe requirements allow AG3000 meters to be used in piping configurations where there is little space between the meter and an elbow.

The standard AG3000 is battery powered with an available pulse output. Both rate and total indication are displayed. Bidirectional flow reading is standard with totals available in forward, reverse, net flow, batch forward flow, and batch reverse flow. Built-in data logging is available as an option for secure flow logging.

The AG3000 is also available in either AC or DC powered versions, with battery backup. Pulse output is standard on all models, while 4-20mA passive current loop is also standard on the AG3000p. 4-20mA loop is optional on the AG3000 and AG3000r externally powered meters and Modbus® protocol outputs are optional on all models although battery life will be reduced if ordered on battery powered units. A power/output cable allows outputs for use with a variety of Seametrics displays and other controls for remote reading and telemetry applications.

The AG3000 Series is CE certified and IP68 for burial, or applications where the meter may be under water for prolonged periods of time. All meters are provided with a security seal to protect against unauthorized access. The seal can be broken by an authorized agent, to change units of measure, pulse rate or replace the battery pack. The cable is field installed where external power is available and/or an output is needed.

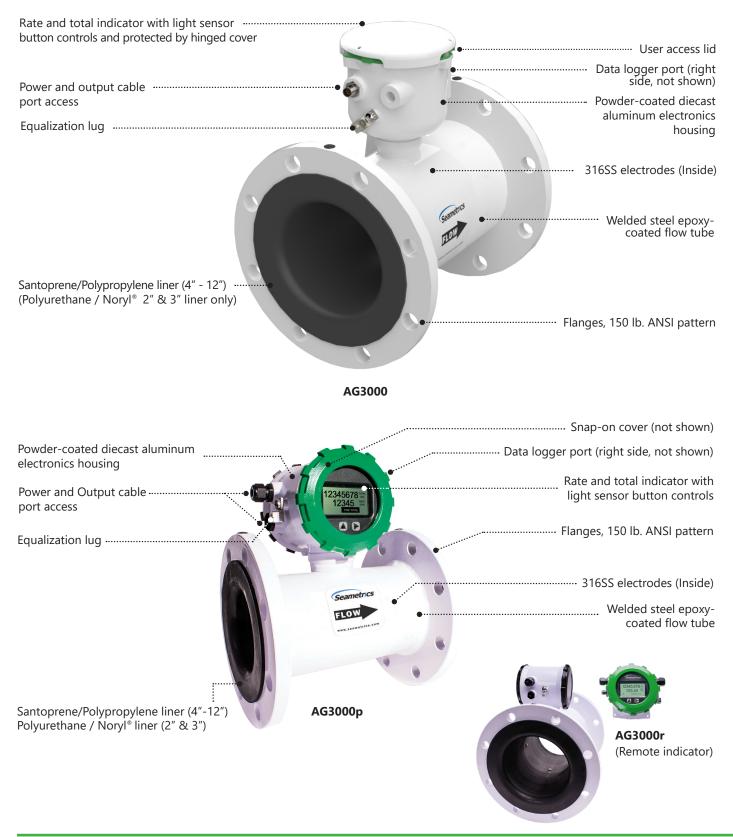


Your first replacement battery is on us. Just call!

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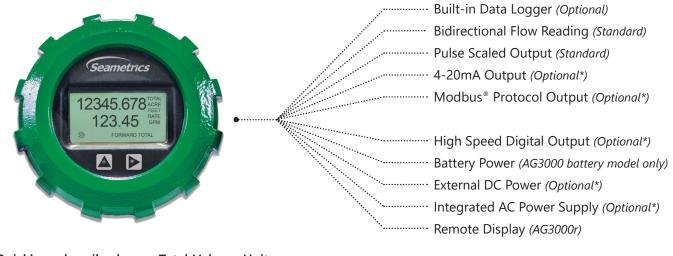


Features



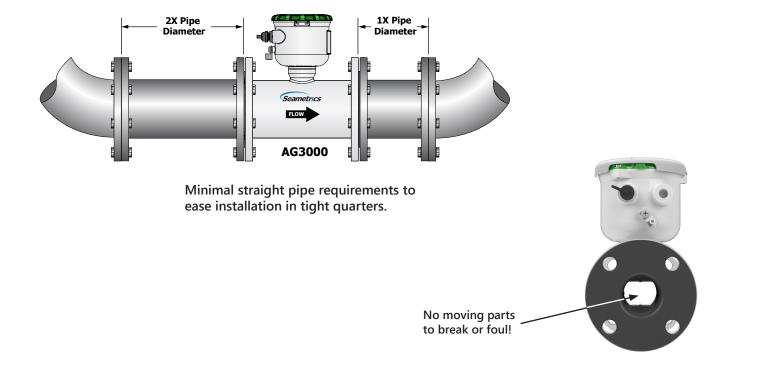


Features



Quickly and easily change Total Volume Units, Flow Rate Units, Pulse Output Scaling, and many other settings using the two light sensor button controls on the display panel.

* Some optional items only available on some configurations. See last page for further details.





Specifications

Pipe Sizes		2", 3", 4", 6", 8",	, 10", 12"								
Flanges		150 lb. ANSI Pattern									
Pressure		150 psi (10.3 bar) line pressure									
Temperature	Operating	10° to 140° F (-12° to 60° C)									
	Storage	-40° to 158° F (-40° to 70° C)									
Accuracy			ling on AG3000p an num flow rate of 10		% AG3000), ±0.02	5% of full-scale flow	w from low flow				
Low Flow Cut	toff	0.5% of maxim	um flow rate								
Liner (2" & 3")		Welded steel, e	poxy-coated								
		Polyurethane/N	loryl®								
		Santoprene flange/Polypropylene liner body									
	Electronics Housing	Powder-coated	diecast aluminum								
	Electrodes	316 stainless st	316 stainless steel								
Display	Туре	128x64 dot-ma	trix LCD								
	Digits	5 Digit Rate			8 Digit Total						
	Units	Rate Volume Units		Rate Time Units	Total Volume Ur	nits					
	Please Note: All AG3000 meters are factory set for gallons per minute (GPM) rate and acre feet total. If other units are required, they can be set in the field.	Gallons Liters Barrels(42 gal) Cubic Feet Cubic Meters	Million Gallons ² Mega Liters ² Imperial Gallons Million Imperial Gallons ²	Second Minute Hour Day	Gallons Gallons x 10 Gallons x 100 Gallons x 1000 Million Gallons Liters Kilo Liters Mega Liters	Barrels (42 gal) Cubic Meters Cubic Meters x 1000 Cubic Feet Cubic Feet x 100 Cubic Feet x 1000 Second Foot Day Million Cubic Feet	Imperial Gallons x 1000 Million Imperial Gallons				
	Bidirectional ¹	Forward Total, I	Reverse Total, Net To	otal, Batch Forwar	d Total, Batch Re	verse Total ³					
Power	DC Power	9-36 Vdc @ 250	9-36 Vdc @ 250 mA max, 30 mA average								
	Battery Backup (Not for use as primary power)	DC powered units: One lithium 7.2V 'D' size battery pack, replaceable. AC powered units: One 9V alkaline battery, replaceable.									
	AC Power	85-264Vac, 50/60Hz, 0.12A (AG3000p and AG3000r only)									
	Battery	One lithium 7.2	V 'D' size battery pa	ack, replaceable. (AG3000 only)						
Scaled Pulse	Signal	Current sinking	Current sinking pulse, isolated, 36 Vdc at 10 mA max								
Output	Pulse Rates	User-scalable from 0.1 to 99,999.9 volume units/pulse. Pulse width is one-half of pulse period with minimum pulse width of 2.5 ms, 200 pulses/sec max. For battery option meters, pulse width varies frequency, 150 pulses/sec max.									
Options	4-20mA Current Loop	lsolated, passive, 24Vdc, 650 Ω maximum current loop									
	High Speed Digital	Isolated, open	collector, 24 Vdc (AG	53000p only)							
	Serial Communications	Isolated, asynchronous serial RS485, Modbus® RTU protocol									
Cable	Power/Output Cable	20ft (6m) standard length polyurethane jacketed cable—for power and outputs (lengths up to 200' available).									
	Remote Display Cable	20ft (6m) stand display (length	ard length polyuret s up to 200' availabl	hane jacketed cat e). <i>(iMAG 4700r)</i>	ole—for connecti	on between meter a	and remote				
Conductivity		>20 microSiem	ens/cm								
Empty Pipe D	etection	Hardware/softv	vare, conductivity-b	ased							
Regulatory		C € (EN 61326)									
	al		(10ft (3m) depth, co								

Modbus is a registered trademark of Schneider Electric. * Specifications subject to change. Please consult our website for the most current data (www.seametrics.com).

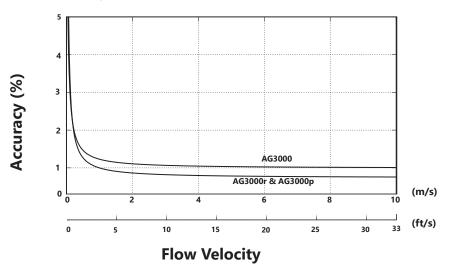
¹ If forward and reverse flow data needs to be sent to another device, either the Digital or Modbus output is required.

² Rate Time Unit is available in Day only.

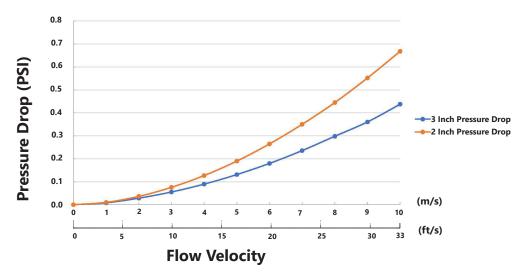
³ Forward and reverse flow totals are non-resettable. Batch forward and batch reverse totals can be reset.



AG3000 Accuracy



2" & 3" Pressure Drop Curve (No Pressure Drop 4"-12")

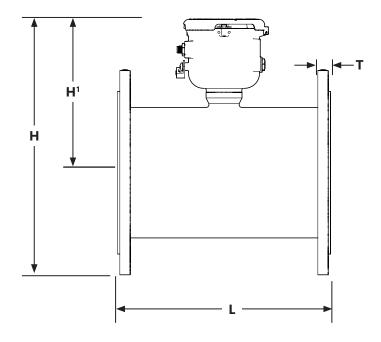


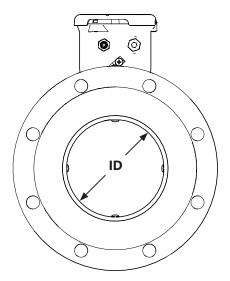
Flow Rate (2" - 12")

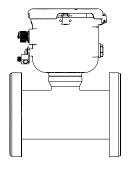
Pipe Size (Inches in diameter)	2″	3″	4″	6″	8″	10″	12″
Max Flow Rate (Gallons/Minute)	321	722	1285	2891	5140	8031	11565
Cut-off (min) Flow Rate (Gallons/Minute)	2	4.0	6.43	14.46	25.70	40.15	57.82
Max Flow Rate (Liters/Second)	20.25	46	81	182	324	507	730
Cut-off (min) Flow Rate (Liters/Second)	0.13	0.23	0.41	0.91	1.62	2.54	3.65
Max Flow Velocity (Meters/Second)	10	10	10	10	10	10	10

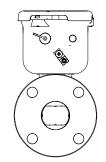


Dimensions - AG3000







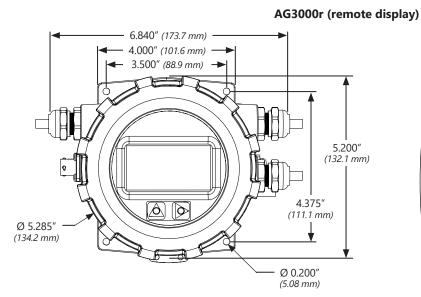


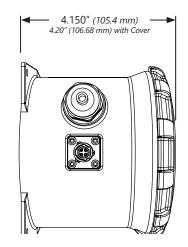
AG3000	L	1	н	1	ŀ	4	1	-	I	D	Bolt Holes	Shipj Wei	oing ght
Meter Size	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	#	lbs	Kg
2″	7.9	200	7.58	193	10.58	268.73	.62	15.7	1.76*	45*	4	20	9
3″	7.9	200	8.08	206	11.83	300.48	.62	15.7	2.68*	68*	4	26	11.8
4″	10.12	257	8.33	211	12.83	325.88	.62	15.7	3.12	79	8	33	15
6″	12.09	307	9.14	231	14.64	371.86	.69	17.5	5.05	128	8	49	22
8″	14.14	359	10.14	257	16.89	429.01	.69	17.5	6.44	164	8	70	32
10″	18.08	459	11.2	284	19.2	487.68	.69	17.5	8.61	219	12	130	59
12″	19.68	500	12.2	310	21.7	551.18	.81	20.6	10.55	268	12	170	77
Flanges	Standa	Standard ANSI 150 lb. drilling Cable 1 lb.											

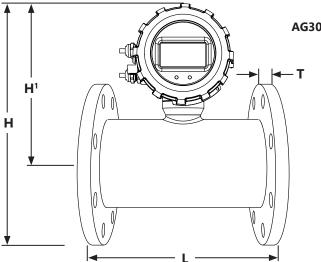
Note: 'L' dimension is total from liner face to liner face *Average ID



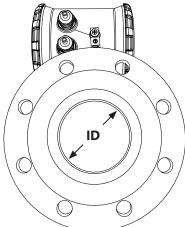
Dimensions - AG3000r and AG3000p







AG3000p and AG3000r (remote meter)



			н	11	ŀ			-		D	Bolt	Shipping Weight			
AG3000	L			1.	"	1				D	Holes	AG3000p		AG3000r	
Meter Size	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	#	lbs	Kg	lbs	Kg
2″	7.9	200	7.8	198	10.8	274	.62	15.7	1.76*	45*	4	21	9.5	22	10
3″	7.9	200	8.35	212	12.1	307	.62	15.7	2.68*	68*	4	27	12.3	28	12.7
4″	10.12	257	8.6	218	13.1	332	.62	15.7	3.12	79	8	34	15.5	43	19.5
6″	12.09	307	9.4	239	14.9	378	.69	17.5	5.05	128	8	50	22.5	59	27
8″	14.14	359	10.4	264	17.15	435	.69	17.5	6.44	164	8	71	32	78	35
10″	18.08	459	11.5	292	19.5	495	.69	17.5	8.61	219	12	130	59	135	61
12″	19.68	500	12.5	317	22	559	.81	20.6	10.55	268	12	170	77	175	79
Flanges	Standard ANSI 150 lb. drilling Cable 1 lb.														

Note: 'L' dimension is total from liner face to liner face *Average ID

AG3000 SERIES FLANGED MAGMETER



How to Order Worksheet

				\sim	\sim			
				(1) (2)	(3) (4)	5	6	7
AG	3000 3000p 3000r							
	2 Style:	F1 = 150	b ANSI	Pattern 3 Power: D1 = DC 60 A1 = AC 60 BX = Batter	0Hz, D2 = DC 5 0Hz, A2 = AC 5 ry		tputs: X = No optior L = 4-20mA	nal output S = Modbus® G = Digital
		2	3	4	5		6	
AG3000 (Integrated Display)	Size	Style	Power	Optional Output² (The AG3000 comes standard with one pulse output)	Option	s	DC Power/Output (Must select one)	Cable
Ois	-0200* 2″	-F1	-D1	-X (requires 4 conductor cable)	-XX	None	-0000 No Cable (Ca	ble required for power/output)
0 P	-0300 3″		-D2	-L (requires 8 conductor cable)	-01	Data Logger	4 Conductor 8 Con	nductor
g G3	-0400 4"			-S (requires 8 conductor cable)			-0064 -0068	6 meter (20 ft)
A gra	-0600 6″							3 15 meter (50 ft)
te	-0800 8″							30 meter (100 ft)
(Ju	-1000 10"		-BX	-X (requires 4 conductor cable for pulse out	tput)			8 45 meter (150 ft) 8 60 meter (200 ft)
	-1200 12"			-S (requires 8 conductor cable for output) ³			-0004 -0000	5 60 Meter (200 It)
		2	3	4	5		6	
S				Optional Output ² (The AG3000p comes standard with			DC Power/Output	Cable - 8 conductor
ש	Size	Style	Power ¹	4-20mA and one pulse output)	Option	s	(Must select one)	
spla		-F1	Power ¹ -D1	4-20mA and one pulse output)		s None	, ,	istomer will supply)
00 Displa	-0200* 2″			4-20mA and one pulse output) -X (requires single cable for DC power & o	output) -XX		, ,	istomer will supply)
3000p ed Displa	-0200* 2" -0300 3"		-D1	4-20mA and one pulse output) -X (requires single cable for DC power & o -S (requires dual cable for DC power & ou	nutput) -XX htput) -01	None	-0000 No Cable (cu	
G3000p rated Displa	-0200* 2" -0300 3" -0400 4"		-D1	4-20mA and one pulse output) -X (requires single cable for DC power & o	nutput) -XX htput) -01	None	-0000 No Cable (cu Single Dual	eter (20 ft)
AG3000p egrated Displa	-0200* 2" -0300 3" -0400 4" -0600 6"		-D1 -D2	4-20mA and one pulse output) -X (requires single cable for DC power & o -S (requires dual cable for DC power & ou -G (requires dual cable for DC power & ou	nutput) -XX htput) -01	None	-0000 No Cable (cu Single Dual -006S -006D 6 me -015S -015D 15 m -030S -030D 30 m	eter (20 ft) neter (50 ft) neter (100 ft)
AG3000p Integrated Displa	-0200* 2" -0300 3" -0400 4" -0600 6" -0800 8"		-D1	4-20mA and one pulse output) -X (requires single cable for DC power & o -S (requires dual cable for DC power & ou -G (requires dual cable for DC power & ou -X (requires single cable for output)	nutput) -XX htput) -01	None	-0000 No Cable (cu <u>Single Dual</u> -006S -006D 6 me -015S -015D 15 m -030S -030D 30 m -045S -045D 45 m	eter (20 ft) neter (50 ft) neter (100 ft) neter (150 ft)
AG3000p (Integrated Display)	-0200* 2" -0300 3" -0400 4" -0600 6" -0800 8" -1000 10"		-D1 -D2 -A1	4-20mA and one pulse output) -X (requires single cable for DC power & o -S (requires dual cable for DC power & ou -G (requires dual cable for DC power & ou	nutput) -XX htput) -01	None	-0000 No Cable (cu Single Dual -006S -006D 6 me -015S -015D 15 m -030S -030D 30 m	eter (20 ft) neter (50 ft) neter (100 ft) neter (150 ft)
AG3000p (Integrated Displa	-0200* 2" -0300 3" -0400 4" -0600 6" -0800 8"		-D1 -D2 -A1	4-20mA and one pulse output) -X (requires single cable for DC power & o -S (requires dual cable for DC power & ou -G (requires dual cable for DC power & ou -X (requires single cable for output) -S (requires single cable for output)	nutput) -XX htput) -01	None	-0000 No Cable (cu <u>Single Dual</u> -006S -006D 6 me -015S -015D 15 m -030S -030D 30 m -045S -045D 45 m	eter (20 ft) neter (50 ft) neter (100 ft) neter (150 ft)
AG3000p (Integrated Displa	-0200* 2" -0300 3" -0400 4" -0600 6" -0800 8" -1000 10"		-D1 -D2 -A1	4-20mA and one pulse output) -X (requires single cable for DC power & o -S (requires dual cable for DC power & ou -G (requires dual cable for DC power & ou -X (requires single cable for output) -S (requires single cable for output)	utput) -XX tput) -01	None	-0000 No Cable (cu <u>Single Dual</u> -006S -006D 6 me -015S -015D 15 m -030S -030D 30 m -045S -045D 45 m	eter (20 ft) neter (50 ft) neter (100 ft) neter (150 ft)
ay)	-0200* 2" -0300 3" -0400 4" -0600 6" -0800 8" -1000 10" -1200 12"	-F1	-D1 -D2 -A1 -A2	4-20mA and one pulse output) -X (requires single cable for DC power & o -S (requires dual cable for DC power & ou -G (requires dual cable for DC power & ou -X (requires single cable for output) -S (requires single cable for output) -G (requires single cable for output) (4) Optional Output ² (The AG3000r comes standard with	tput) -XX tput) -01 tput)	None Data Logger	-0000 No Cable (cu <u>Single Dual</u> -006S -006D 6 me -015S -015D 15 n -030S -030D 30 n -045S -045D 45 n -060S -060D 60 n	eter (20 ft) neter (50 ft) neter (100 ft) neter (150 ft) neter (200 ft)
ay)	-0200* 2" -0300 3" -0400 4" -0600 6" -0800 8" -1000 10" -1200 12"	-F1	-D1 -D2 -A1 -A2	4-20mA and one pulse output) -X (requires single cable for DC power & o -S (requires dual cable for DC power & ou -G (requires dual cable for DC power & ou -X (requires single cable for output) -S (requires single cable for output) -G (requires single cable for output) -S (requires single cable for output) -G (requires single cable for output) -S (requires output) -S (requires output) -S (requires single cable for output) -S (requires output) -S (r	-XX tput) -01 tput) 5	None Data Logger 6 DC Power/ - 6 conduc (Must select of -0000 No	-0000 No Cable (cu <u>Single Dual</u> -006S -006D 6 me -015S -015D 15 m -030S -030D 30 n -045S -045D 45 m -060S -060D 60 m Output Cable tor me) Cable	eter (20 ft) neter (50 ft) neter (100 ft) neter (150 ft) neter (200 ft) 7 Remote Display Cable - 6 conductor
000r Display)	-0200* 2" -0300 3" -0400 4" -0600 6" -0800 8" -1000 10" -1200 12" (1) Size	-F1 2 Style I	-D1 -D2 -A1 -A2 3 Power ¹	4-20mA and one pulse output) -X (requires single cable for DC power & o -S (requires dual cable for DC power & ou -G (requires dual cable for DC power & ou -X (requires single cable for output) -S (requires single cable for output) -G (requires single cable for output) -S (requires single cable for DC power	<pre>-XX tput) -XX tput) -01 tput) 5 Options</pre>	None Data Logger DC Power/ - 6 conduc (Must select of er	-0000 No Cable (cu <u>Single Dual</u> -006S -006D 6 me -015S -015D 15 m -030S -030D 30 m -045S -045D 45 m -060S -060D 60 m Output Cable tor Date: Cable tomer will supply)	eter (20 ft) neter (50 ft) neter (100 ft) neter (150 ft) neter (200 ft) (7) Remote Display Cable - 6 conductor (Must select one) -006 6 meter (20 ft) -015 15 meter (50 ft)
000r Display)	-0200* 2" -0300 3" -0400 4" -0600 6" -0800 8" -1000 10" -1200 12" 1 Size -0200* 2"	-F1 2 Style I	-D1 -D2 -A1 -A2 3 Power ¹ -D1	4-20mA and one pulse output) -X (requires single cable for DC power & o -S (requires dual cable for DC power & ou -G (requires dual cable for DC power & ou -X (requires single cable for output) -S (requires single cable for output) -G (requires single cable for output) -G (requires single cable for output) -G (requires single cable for output) -Y (requires single cable for output) -X (requires single cable for output) -X (requires single cable for DC power and output) -X (requires single cable for DC power and output) -L (requires single cable for DC power and output)	-XX tput) -XX tput) -01 tput) 5 Options -XX None	None Data Logger DC Power/ - 6 conduc (Must select of er Single Du	-0000 No Cable (cu <u>Single Dual</u> -006S -006D 6 me -015S -015D 15 m -030S -030D 30 m -045S -045D 45 m -060S -060D 60 m Output Cable tor one) Cable tomer will supply) <u>al</u>	eter (20 ft) neter (50 ft) neter (100 ft) neter (150 ft) neter (200 ft) 7 Remote Display Cable - 6 conductor (Must select one) -006 6 meter (20 ft) -015 15 meter (50 ft) -030 30 meter (100 ft)
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000r Display)	-0200* 2" -0300 3" -0400 4" -0600 6" -0800 8" -1000 10" -1200 12" 1 Size -0200* 2" -0300 3" -0400 4" -0600 6"	-F1 2 Style I	-D1 -D2 -A1 -A2 3 Power ¹ -D1	4-20mA and one pulse output) -X (requires single cable for DC power & o -S (requires dual cable for DC power & ou -G (requires dual cable for DC power & ou -G (requires single cable for output) -S (requires single cable for output) -G (requires single cable for output) -G (requires single cable for output) -G (requires single cable for output) -C (requires single cable for DC power and output) -L (requires single cable for DC power and output) -S (requires single cable for DC power and output) -S (requires single cable for DC power and output) -S (requires single cable for DC power and output) -S (requires single cable for DC power and output) -S (requires single cable for DC power and output) -S (requires single cable for DC power and output) -S (requires single cable for DC power and output) -S (requires single cable for DC power and output) -S (requires single cable for DC power and output)	-XX tput) -XX tput) -01 tput) 5 Options -XX None	None Data Logger Deta Logger DC Power/ - 6 conduc (Must select of (Must select of (Must select of (Must select of (Single Du -006S -006 -015S -015	-0000 No Cable (cu <u>Single Dual</u> -006S -006D 6 me -015S -015D 15 n -030S -030D 30 n -045S -045D 45 n -060S -060D 60 n Coutput Cable tor one) Cable tomer will supply) <u>al</u> 5D 6 meter (20 ft) 5D 15 meter (50 ft)	eter (20 ft) neter (50 ft) neter (100 ft) neter (150 ft) neter (200 ft) 7 Remote Display Cable - 6 conductor (Must select one) -006 6 meter (20 ft) -015 15 meter (50 ft) -030 30 meter (100 ft)
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Modbus is a registered trademark of Schneider Electric. Viton is a registered trademark of DuPont Corporation.

Note: All AG3000 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.

¹ AC meters come with a 1.8 meter (6 ft) AC power cable.
 ² You can choose up to one additional output.
 ³ Battery life is shortened when using Modbus with battery powered units. Expected battery life is approximately 1 year, based on usage.

User is responsible for reviewing end use application with their supplier for product suitability.