

### Ultra Mag® Sensor

### ProComm Converter



### ProComm GO Converter



Ultra Mag flow meters are manufactured to the highest standard available for mag meters.

The flanged end tube design permits use in a wide range of applications with up to 300 PSI working pressure.

The fabricated tube is stainless steel with steel or stainless steel flanges and is lined with UltraLiner™, an NSF approved, fusion bonded epoxy material.

## INSTALLATION

Ultra Mag flow meter installation is similar to placing a short length of flanged end pipe in the line. The meter can be installed vertically, horizontally, or inclined on suction or discharge lines. The meter must have a full pipe of liquid for proper operation. Fluid must be grounded to the downstream flange of the sensor either via internal grounding electrodes (2 - 12") or using McCrometer 316 SS grounding rings. For best performance, grounding rings are recommended for all sizes.

The meter needs to be located a minimum distance before and after flow disturbances, such as elbows, pumps, partially opened valves, and changes in pipe diameter. The uneven flow created by these obstructions can vary with each system.

The minimum distance is measured in pipe diameters (D). To ensure accuracy locate the sensor upstream and downstream of flow disturbances as follows:

2" & 3" Wafer style meters	3D upstream / 1D downstream
4" - 48" Steel flanged meters	1D upstream / 0D downstream

All blending and chemical injection should be done early enough so the flow media is thoroughly mixed prior to entering the measurement area.

## AVAILABLE ULTRA MAG END CONNECTIONS

### Choice of Flanged Options

- 4" - 48": Steel AWWA class "D" flat face flanges (150 psi)
- 4"-48": Steel ANSI 150 lb raised face flanges (optional)
- 14" - 36": Steel AWWA class "F" raised face flanges (300 psi)
- 4"-36": Steel ANSI 300 lb raised face flanges (optional)

### Choice of Non Flanged Options

- 2" & 3": Steel wafer style

## PERFORMANCE ADVANTAGES

- Flanged models need only 1 pipe diameter upstream of most flow disturbers
- No obstruction to the flow
- No moving parts to wear or break
- Maintenance free
- Choice of Accuracy +/- 0.2% OR +/- 0.5%
- Debris or solids will not clog the meter
- No head loss
- Bi-directional flow
- Empty pipe detection
- Unaffected by changes in density and viscosity
- No risk of liner delamination or separation
- Wide flow range
- Separated power and signal cables

## TYPICAL APPLICATIONS

### Industrial

Raw Water	Process Control
Chilled Water	Effluent Wastewater
Cooling Water	

### Clean Water

Well Water	Rate-of-Flow Control
Potable Water	Raw Water Transmission
Pump Stations	

### Wastewater

Influent	Waste Activated
Effluent	Sludge
Reclaimed	Return Activated
Lift Stations	Sludge



### PROCOMM CONVERTER

The signal converter is the reporting, input and output control device for the sensor. The converter allows the measurements, functional programming, control of the sensor and data recording to be communicated through the display and inputs/outputs.

The microprocessor-based signal converter has a curve-fitting algorithm to improve accuracy, dual 4-20mA analog outputs, an optional RS485 communication port, an 8 line graphical backlit LCD display with 6-key touch programming, and a rugged enclosure that meets IP67.

In addition to a menu-driven self-diagnostic test mode, the converter continually monitors the microprocessor's functionality. The converter will output rate of flow and total volume. The converter also comes standard with password protection and many more features.

### ISOLATED POWER AND SIGNAL

The power and signal between the converter and sensor are isolated and placed in separate cables giving superior resistance to electrical signal noise compared to single cable designs. An added benefit from the dual cable design is a maximum cable length of up to 500ft.



## Ultra Mag with ProComm Converter Part Number Matrix

UM	-	-	-	-	-	-	-	-	-	-	-
Nominal Line Size											
2 in 02											
3 in 03											
4 in 04											
6 in 06											
8 in 08											
10 in 10											
12 in 12											
14 in 14											
16 in 16											
18 in 18											
20 in 20											
24 in 24											
30 in 30											
36 in 36											
42 in 42											
48 in 48											
End Connection Options											
Class D AWWA Flat Face Flanges	1										
150# ANSI Raised Face Flanges	2										
300# ANSI Raised Face Flanges	3										
Class F AWWA Flat Face Flanges	4										
Wafer Style (2 & 3" only)	N										
Electrode Material Options											
S316 Stainless Steel (Standard)	S										
Hastelloy	H										
Converter Mounting and Cable Connector Options											
Meter Mount Converter	M										
Strain Relief [Remote Mount] (Standard)	R										
Quick Connect [Remote Mount]	Q										
Strain Relief [Remote Mount Potted J Box]	P										
Quick Connect [Remote Mount Potted J Box]	C										
Remote Cable Length Options											
Meter Mount Converter [No remote Cable]	000										
25 feet (Standard)	025										
50 feet	050										
75 feet	075										
100 feet	100										
125 feet	125										
150 feet	150										
175 feet	175										
200 feet	200										
500 feet	500										

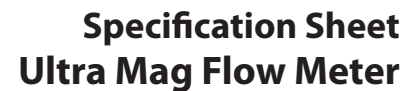




## Ultra Mag with ProComm GO Converter Part Number Matrix

UM		-							-		-		-		-	
Line Size																
2 in	02															
3 in	03															
4 in	04															
6 in	06															
8 in	08															
10 in	10															
12 in	12															
14 in	14															
16 in	16															
18 in	18															
20 in	20															
24 in	24															
30 in	30															
36 in	36															
42 in	42															
48 in	48															
Flange Connections																
AWWA Class D (150 psi Rating) (Standard)		1														
ANSI Class 150# (285 psi Rating)		2														
ANSI Class 300# (300 psi Rating)		3														
AWWA Class F (300 psi Rating)		4														
Wafer Style (2 & 3" Only)		N														
Electrode Material Options																
S316 Stainless Steel (Standard)		S														
Hastelloy		H														
Converter Mounting and Cable Connector Options																
Meter Mount Converter (Standard)		M														
Strain Relief [ 25 ft Remote Mount]		R														
Quick Connect [ 25 ft Remote Mount]		Q														
Strain Relief [ 25 ft Remote Mount] (Potted)		P														
Quick Connect [ 25 ft Remote Mount] (Potted)		C														

continued on next page



### FLOW METER SPECIFICATIONS

<b>Pipe Sizes</b>	
2", 3", 4", 6", 8", 10", 12", 14", 16", 18", 20", 24", 30", 36", 42", 48"	
<b>Flow Direction Measurement</b>	
Forward and reverse flow indication and forward, reverse, net totalization are standard with all meters	
<b>Accuracy</b>	
<ul style="list-style-type: none"> <li>Standard: +/- 0.5% of measured value <math>\pm 0.006</math> ft/s (<math>\pm 0.0018</math> m/s)</li> <li>Optional: +/- 0.2% of measured value <math>\pm 0.006</math> ft/s (<math>\pm 0.0018</math> m/s)</li> <li>Battery powered: 1% of measured value <math>\pm 0.006</math> ft/s (<math>\pm 0.0018</math> m/s)</li> </ul> <p><b>IMPORTANT NOTICE ON FLOW METER ACCURACY:</b> The flow meter, the cable and the electronics are factory calibrated for accuracy as a single unit. Changing the cable length with the Splice Kit changes the accuracy of the meter and invalidates the calibration certificate.</p>	
<b>Accuracy Tests</b>	
Multiple point wet flow calibration of every complete flow tube with its signal converter. If desired, the tests can be witnessed by the customer. The McCrometer test facilities are traceable to the National Institute of Standards & Technology. Uncertainty relative to flow is $\pm 0.15\%$ .	
<b>Pipe Run Requirements</b>	
2" & 3" wafer style	3D upstream / 1D downstream
4" and larger flanged	1D upstream / 0D downstream
<b>Repeatability</b>	
$\pm 0.05\%$ or $\pm 0.0008$ ft/s ( $\pm 0.25$ mm/s), whichever is greater	
<b>Conductivity</b>	
5 $\mu$ s/cm	
<b>Liner</b>	
UltraLiner NSF approved, fusion bonded epoxy	
<b>Electrodes</b>	
Type 316 stainless steel, others optional	
<b>Electrical Connections</b>	
<ul style="list-style-type: none"> <li>Compression gland seals</li> <li>Quick-Connect</li> </ul>	
<b>Sensor Cable Lengths</b>	
Standard	25'/7.6 m McCrometer supplied submersible cable with each remote mount unit.
Optional	Up to 500'/152.4 m, or 25'/7.6 m max for battery powered.
Quick Connect	Available in standard cable lengths: Feet: 25, 50, 75, 100, 125, 150, 175, 200, 500 Meters: 7.6, 15.25, 22.5, 30.5, 38.1, 45.75, 53.3, 61, 152.4 Custom cable lengths at additional cost.

### FLOW METER SPECIFICATIONS (CONT.)

#### IP Rating

<b>Standard model</b>	<ul style="list-style-type: none"> <li>• Quick Connect (NEMA 6P/IP68 with remote converter)</li> <li>• Compression gland seals (NEMA 6P/IP68 with remote converter)</li> </ul>
<b>HL model</b>	<ul style="list-style-type: none"> <li>• Quick Connect (IP67)</li> <li>• Compression gland seals (IP67)</li> </ul>

#### Sensor Submersibility Depth

<b>With standard strain relief cable</b>	9 m (30 ft.)
<b>With optional quick connect cable</b>	1.8 m (6 ft.)

#### Head Loss

None. No obstruction in line and no moving parts

#### Warranty

<b>Meter</b>	2 year warranty
<b>Liner</b>	Lifetime guarantee

#### Pressure Range

AWWA Class D (150 psi Rating) (Standard)  
 ANSI Class 150# (285 psi Rating)  
 ANSI Class 300# (300 psi Rating)  
 AWWA Class F (300 psi Rating)

#### Velocity Range

.2 to 32 FPS

#### Temperature Range

Sensor Operating: -10 to 60°C (14 to 140°F)  
 Sensor Storage: -15 to 60°C (5 to 140°F)

#### Certifications and Approvals

<b>Standard Model</b>	<ul style="list-style-type: none"> <li>• ISO 9001:2015 certified quality management system</li> <li>• Certified by MET to UL 61010-1 / CSA C22.2 No. 61010-1</li> <li>• Certified to NSF / ANSI Standards*</li> </ul>
<b>HL Model</b>	<ul style="list-style-type: none"> <li>• ISO 9001:2015 certified quality management system</li> <li>• Certified by MET: Safety: UL61010-1 / CSA C22.2 No. 61010-1, Third Edition: Safety of Electrical Equipment For Measurement, Control, and Laboratory Use</li> <li>• Certified by MET: Standards: ANSI / ISA12.12.01 / CSA C22.2 No. 213, Nonincendive Electrical Equipment               <ul style="list-style-type: none"> <li>• Class I and II, Division 2</li> <li>• Class III, Divisions 1 and 2 Hazardous (Classified) Locations</li> </ul> </li> <li>• Certified to NSF / ANSI Standards*</li> </ul>



#### System Options

- Hastelloy® electrodes
- Additional sensor cable up to 475'
- Annual verification / calibration
- Stainless steel ID tag

\* Ultra Mag is certified by IAPMO R&T to NSF/ANSI 61 for material safety and NSF/ANSI 372 for low lead content.





## FLOW METER SPECIFICATIONS (CONT.)

### Meter Options

- |  |   |
|--|---|
| <ul style="list-style-type: none"><li>• DC powered converter (10-35 VDC, 21 W)</li><li>• Meter mounted converter</li><li>• Extended warranty</li><li>• Hastelloy® electrodes</li><li>• ANSI or DIN flanges</li><li>• Special lay lengths, including ISO standard lay lengths</li></ul> | <ul style="list-style-type: none"><li>• Quick Connect cable fittings</li><li>• Converter sun shield</li><li>• HART® Converter</li><li>• Smart Output™ (Sensus or Itron compatible)</li><li>• Battery or battery-solar powered converter</li></ul> |
|--|---|

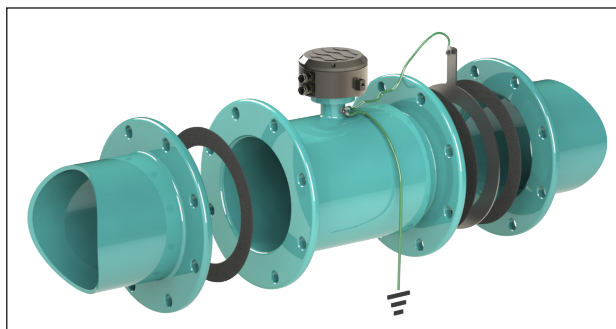
### METER GROUNDING RECOMMENDATIONS

Grounding the meter body for safety according to national (NEC) or local electrical codes is recommended on ALL meter installations.

For best performance, grounding the fluid column is recommended when the meter is installed in an electrically noisy environment, such as with VFD pumps or nearby electrical systems with insufficient grounding.

**Conductive or uncoated pipe** - The uncoated pipe flange can be used to establish a connection to earth ground.

**Plastic or internally coated pipe** - Grounding rings can be installed to establish a connection to earth ground. See the Ultra Mag IOM Manual, Lit. # 30119-03, for more information on grounding configurations using grounding rods and grounding rings.



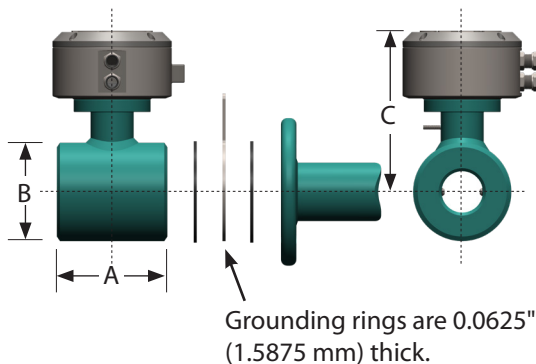
### DIMENSIONS AND WEIGHTS

#### 2" and 3" Models Body Style

Meter Type	Pipe Size (Nominal)	Meter Pipe ID	Flow Ranges GPM Standard .2 to 32 FPS Min - Max	DIMENSIONS (Lay Lengths)							Est. Shipping Weight (lbs.)**	
				A		B	C		D	E	UM06*	UM08*
				UM06*	UM08*		UM06*	UM08*				
Use model shown below for dimensions												
Wafer style	2"	1.625	2 - 310	4.5	4.5	4.0	6.5	7.25	n/a	n/a	9.6	10.1
	3"	2.625	5 - 700	4.5	4.5	4.0	7.0	7.75	n/a	n/a	11.3	11.8

\* Note: UM06 relates to AWWA Class D; UM08 relates ASNI #150, #300, AWWA Class F

\*\* For remote mount meters, add 4 lbs for ProComm converter.



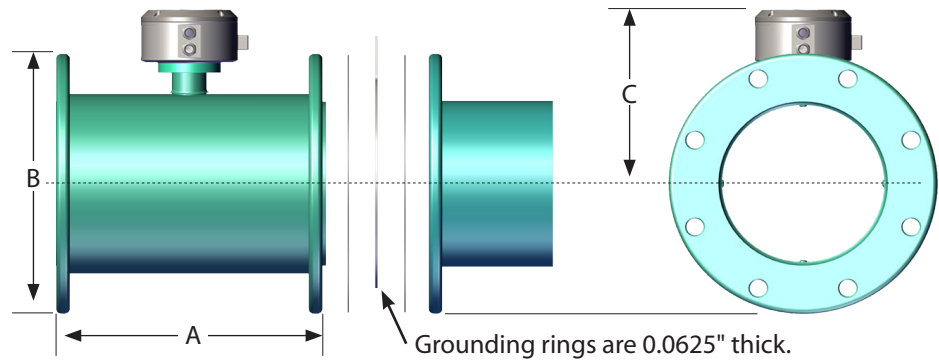
### DIMENSIONS AND WEIGHTS (CONT.)

#### 4" to 12" Models Body Style

Pipe Size (Nominal)	Meter Pipe ID		Flow Ranges GPM Standard .2 to 32 FPS Min - Max	DIMENSIONS (Lay Lengths)					Est. Shipping Weight (lbs.)**	
				A		B		C		
	UM06*	UM08*		UM06*	UM08*	UM06*	UM08*		UM06*	UM08*
4"	3.834	3.76	8 - 1,140	13.40	13.40	9.00	10.00	7.28	78	108
6"	5.782	5.732	19 - 2,660	14.60	14.60	11.00	12.50	8.25	82	138
8"	7.782	7.732	33 - 4,870	16.10	17.25	13.50	15.00	9.25	115	195
10"	9.782	9.732	52 - 7,670	18.50	18.50	16.00	17.50	10.5	144	247
12"	11.782	11.732	74 - 11,180	19.70	19.70	19.00	20.50	11.5	193	342

\* Note: UM06 relates to AWWA Class D; UM08 relates ASNI #150, #300, AWWA Class F

\*\* For remote mount meters, add 4 lbs for ProComm converter.



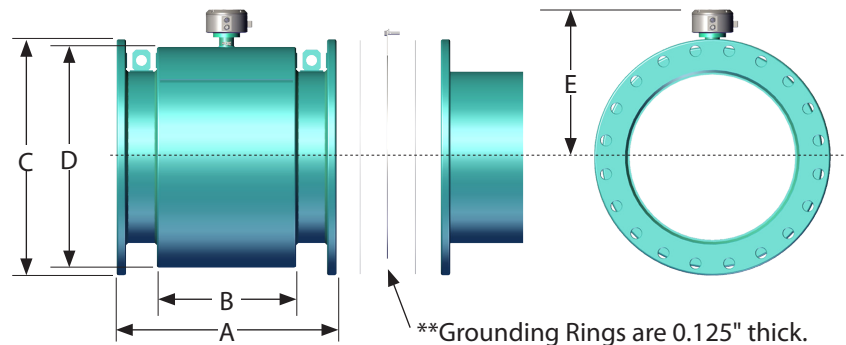
#### 14+" Models Body Style

Pipe Size (Nominal)	Meter Pipe ID	Flow Ranges GPM Standard .2 to 32 FPS Min - Max	DIMENSIONS (Lay Lengths)							Est. Shipping Weight (lbs.)**	
			A		B	C		D	E		
			UM06*	UM08*		UM06*	UM08*			UM06*	UM08*
14"	13.63	90 - 16,070	21.70	22.75	11.875	21.00	23.00	20.135	14.56	321	476
16"	15.50	118 - 20,900	23.60	25.25	14.25	23.50	25.50	21.635	15.32	390	645
18"	17.50	150 - 26,480	23.60	25.25	14.25	25.00	28.00	23.635	16.32	446	750
20"	19.50	185 - 32,720	25.60	28.25	16.06	27.50	30.50	25.6975	17.35	588	874
24"	23.50	270 - 47,180	30.70	35.75	21.75	32.00	36.00	29.51	19.25	769	1,568
30"	29.25	420 - 73,620	35.80	41.75	25.25	38.75	43.00	35.6975	22.35	1,261	2,317
36"	35.25	610 - 105,930	46.10	46.10	28.63	46.00	50.00	42.76	25.88	1,696	2,915
42"	41.25	830 - 144,370	48.05	***	36.25	52.75	***	48.135	28.57	***	***
48"	47.25	1,080 - 188,430	50.00	***	36.25	59.50	***	54.135	31.57	***	***

\* Note: UM06 relates to AWWA Class D; UM08 relates ASNI #150, #300, AWWA Class F

\*\* For remote mount meters, add 4 lbs for ProComm converter.

\*\*\* Consult factory





## PROCOMM CONVERTER PART NUMBER MATRIX

PC	-	-	-	-	-	-
Converter Mounting Options		-	-	-	-	-
Remote Mount		R	-	-	-	-
Meter Mount		M	-	-	-	-
Converter Power Options		-	-	-	-	-
A/C Power		A	-	-	-	-
DC Power		D	-	-	-	-
Converter Output Options		-	-	-	-	-
Dual 4-20mA Analog, Dual Digital (Standard)		-	-	1	-	-
Modbus + STD (Two 4-20, two Dig)		-	-	2	-	-
Hart + STD (Two 4-20, two Dig)		-	-	3	-	-
Datalogger/BIV + STD (Two 4-20, two Dig)		-	-	4	-	-
Datalogger/BIV + Modbus + STD (Two 4-20, two Dig)		-	-	5	-	-
Datalogger/BIV + Hart + STD (Two 4-20, two Dig)		-	-	6	-	-
AMI Smart Output + STD (Two 4-20, two Dig)		-	-	7*	-	-
Datalogger/BIV + AMI Smart Output + STD (Two 4-20, two Dig)		-	-	8*	-	-
Smart Output Protocol Options (*7 or 8 output option required)						
No AMI Outputs		-	-	-	-	-
Sensus Protocol (6ft cable, Nicor Connector hardwired only)		-	-	-	SEN	-
Itron 6 digit Protocol (6ft cable, Nicor Connector hardwired only)		-	-	-	IT6	-
Itron 9 digit [100W] Protocol (6ft cable, Nicor Connector hardwired only)		-	-	-	IT9	-
Neptune Protocol (6ft cable, Nicor Connector hardwired only)		-	-	-	NEP	-
ATT Wireless Telemetry System (RTU, Solar Panel, 15 ft 7 pin Cable)		-	-	-	ATT	-
Verizon Wireless Telemetry System (RTU, Solar Panel, 15 ft 7 pin Cable)		-	-	-	VZW	-
Hazardous Area Location						
Class 1, Division 2, Groups A-D, T5		-	-	-	-	HL



## PROCOMM GO CONVERTER PART NUMBER MATRIX

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### PROCOMM CONVERTER SPECIFICATIONS

#### Physical Specifications

<b>Electronic Housing</b>	Diecast aluminum, powder coated enclosure w/ tamper resistant seal	
<b>Converter Dimensions</b>	Remote Mount:	Height: 7.3" (18.5 cm) Width: 8.5" (21.6 cm) Depth: 4.3" (10.9 cm)
	Meter Mount:	Height: 6.9" (17.5 cm) Width: 7.2" (18.25 cm) Depth: 6.2" (15.7 cm)
<b>Power</b>	AC Power:	100-240 VAC / 45-66 Hz (10 W)
	DC Power:	12-48 VDC (10 W)
<b>Connection Options</b>	<ul style="list-style-type: none"> <li>• Compression gland seals for 0.24" to 0.47" diameter round cable</li> <li>• Conduit option: 1/2" NPT threaded connections</li> </ul>	
<b>Galvanic Isolation</b>	All inputs / outputs are galvanically isolated from power supply up to 500 V	
<b>Conductivity</b>	Minimum conductivity of 5µS/cm	

#### Performance and Operational Specifications

<b>Accuracy</b>	<ul style="list-style-type: none"> <li>• ±0.5% from 1 f/s to max velocity, up to ±1% for 0.3 to 1 f/s</li> <li>• ±1% for reverse flow</li> </ul>	
<b>Location</b>	Indoor or outdoor use	
<b>Operating and Storage Temperature</b>	-4° to 140° F (-20° to 60° C)	
<b>IP Rating</b>	IP67 Die cast aluminum converter (only when connected using compression gland seals)	
<b>Standard Outputs</b>	Dual 4-20mA Outputs: Galvanically isolated and fully programmable for zero and full scale (0-21mA rangeability)	
	Two separate digital programmable outputs: open collector transistor usable for pulse, frequency, or alarm settings.	
<b>Optional Outputs</b>	<ul style="list-style-type: none"> <li>• Volumetric Pulse</li> <li>• Flow Rate (Frequency)</li> <li>• Hardware Alarm</li> <li>• High/Low Flow Alarms</li> <li>• Empty Pipe</li> <li>• Directional Indication</li> </ul>	<ul style="list-style-type: none"> <li>• Range Indication</li> <li>• Maximum switching voltage: 40 VDC</li> <li>• Maximum switching current: 100mA</li> </ul>
	<ul style="list-style-type: none"> <li>• Modbus</li> <li>• HART</li> </ul>	<ul style="list-style-type: none"> <li>• Smart Output™ (Sensus, Itron 6, Itron 9)</li> <li>• Datalogger</li> <li>• Built-in verification</li> </ul>

#### Display and Measurement

<b>Keyboard and Display</b>	Can be used to access and change set-up parameters using six membrane keys and an LCD display	
<b>Engineering Units</b>	<ul style="list-style-type: none"> <li>• Cubic Meter</li> <li>• Cubic Centimeter</li> <li>• Milliliter</li> <li>• Liter</li> <li>• Cubic Decimeter</li> <li>• Decaliter</li> <li>• Hectoliter</li> <li>• Cubic Inches</li> </ul>	<ul style="list-style-type: none"> <li>• US Gallons</li> <li>• Imperial Gallons</li> <li>• Cubic Feet</li> <li>• Kilo Cubic Feet</li> <li>• Standard Barrel</li> <li>• Oil Barrel</li> <li>• US Kilogallon</li> <li>• Ten Thousands of Gallons</li> </ul>
		<ul style="list-style-type: none"> <li>• Imperial Kilogallon</li> <li>• Acre Feet</li> <li>• Megagallon</li> <li>• Imperial Megagallon</li> <li>• Hundred Cubic Feet</li> <li>• Megaliters</li> </ul>

## PROCOMM CONVERTER SPECIFICATIONS (CONT.)

### Other Specifications

#### Standard Model

- ISO 9001:2015 certified quality management system
- CE
- Certified by MET to UL 61010-1 / CSA C22.2 No. 61010-1

#### HL Model

- ISO 9001:2015 certified quality management system
- CE
- Certified by MET: Safety: UL61010-1 / CSA C22.2 No. 61010-1, Third Edition: Safety of Electrical Equipment For Measurement, Control, and Laboratory Use
- Certified by MET: Standards: ANSI / ISA12.12.01 / CSA C22.2 No. 213, Nonincendive Electrical Equipment
  - Class I and II, Division 2
  - Class III, Divisions 1 and 2 Hazardous (Classified) Locations



#### IMPORTANT

Electrical safety certifications above do not apply to model 282L Single Point Insertion (SPI Mag) Electromagnetic Flow Meter.



#### IMPORTANT

Refer to certification requirements. Do not substitute components.



#### IMPORTANT

The ProComm converter, models PC-RA1-HL series and PC-MA1-HL series have no user serviceable parts.



### PROCOMM GO CONVERTER SPECIFICATIONS

#### Physical Specifications

<b>Electronic Housing</b>	Diecast aluminum, powder coated enclosure w/ tamper resistant seal, 6½" x 6½" x 43/8" tall
<b>Converter Dimensions</b>	See "Dimensions" section for meter mount and remote mount converter dimensions.
<b>Power</b>	<b>Battery:</b> Standard: three 3.6V lithium-thionyl chloride (Li-SOCl <sub>2</sub> ) D size batteries with two AA backup batteries <b>AC Power:</b> 100-240VAC/45-66Hz (4W) <b>DC Power:</b> Linear power supply 10-35VDC (4 W)
<b>Electrical Connections</b>	<ul style="list-style-type: none"> <li>Optional shielded cable for 10-32VDC/4-20 mA output</li> <li>Optional shielded cable for pulse out</li> </ul>

#### Performance and Operational Specifications

<b>Battery Life</b>	Five-year expected battery life, five-year battery warranty
<b>Location</b>	Indoor or outdoor use
<b>Altitude</b>	Operating: 2000 meters Storage: 12,000 meters
<b>Operating Temperature</b>	-4° to 140° F (-20° to 60° C)
<b>Storage Temperature</b>	-4° to 140° F (-20° to 60° C)
<b>Relative Humidity</b>	0% to 100%
<b>IP Rating</b>	IP67 Die cast aluminum converter
<b>Outputs</b>	<b>Digital output:</b> Digital pulse (open collector) output for volumetric - Two isolated digital pulse (open collector) outputs for volumetric - AMI output <b>Analog output:</b> 4-20mA: Galvanically Isolated, 16 Bit resolution. All power configurations (including battery). Note: 9-30 VDC loop power required (not supplied via converter)

#### Display and Measurement

<b>Display</b>	<ul style="list-style-type: none"> <li>2-Line LCD display (no backlight)</li> <li>Non-volatile memory</li> <li>Anti-reverse totalizer (standard)</li> <li>Total (to 9 digits of precision)</li> </ul>	<ul style="list-style-type: none"> <li>Flow rate and velocity (to 5 digits of precision)</li> <li>Two alarms: low battery and empty pipe (optional)</li> <li>Opening lid activates display</li> </ul>
<b>Digits</b>	5 Rate, 9 Total	
<b>Units</b>	GPM Gallons per minute    IGM Imperial gal per minute    CFM Cubic feet per minute MGD Mega gal per day    MI9 Miners inch (9G)    B5M Barrels per minute (55G) CFS Cubic feet per second    MI1 Miners inch (11.22G)    B5H Barrels per hour (55G) MLD Megaliters per day    APD Acre feet per day    B5D Barrels per day (55G) LPS Liters per second    KLH Kiloliters per hour    B4M Barrels per minute (42G) CMH Cubic meters per hour    LPH Liters per hour    B4H Barrels per hour (42G) LPM Liters per minute    CMM Cubic meters per minute    B4D Barrels per day (42G) GPH Gallons per hour    CFM Cubic feet per minute	








# Specification Sheet Ultra Mag Flow Meter

<b>Totalizer Units</b>	GAL	Gallons	B42	Barrel (42G)	MH1	Miners	Inch	Hour
	CUF	Cubic Feet	B46	Barrel (46G)				(11.22G)
	AFT	Acre Feet	B55	Barrel (55G)	MD1	Miners	Inch Day	(11.22G)
	CUM	Cubic Meters	IMG	Imperial Gallon	MH9	Miners	Inch Hour	(9G)
	LIT	Liters	AIN	Acre Inch	MD9	Miners	Inch Day	(9G)
	MML	Megaliter	TON	Ton (Short)	KGL	Kilo Gallons		
	MTT	Metric Ton (KL)	MM1	Miners Inch Minute (11.22G)	MGL	Mega Gallons		
	B31	Barrel (31G)	MM9	Miners Inch Minute (9G)	IN3	Cubic Inch		
<b>Data Logger</b>	Standard with all models, minimum of five years of data stored							

## Other Specifications

<b>Options and Accessories</b>	<ul style="list-style-type: none"> <li>Data Logger - included as standard with five years of data storage at default (12hr) interval. (Cable sold separately)</li> <li>AC, DC, and battery powered with battery backup powered available</li> </ul>
<b>Safety</b>	<ul style="list-style-type: none"> <li>IEC 61010-1, Pollution Degree II</li> <li>Overvoltage protection Category III</li> </ul>

## Certifications

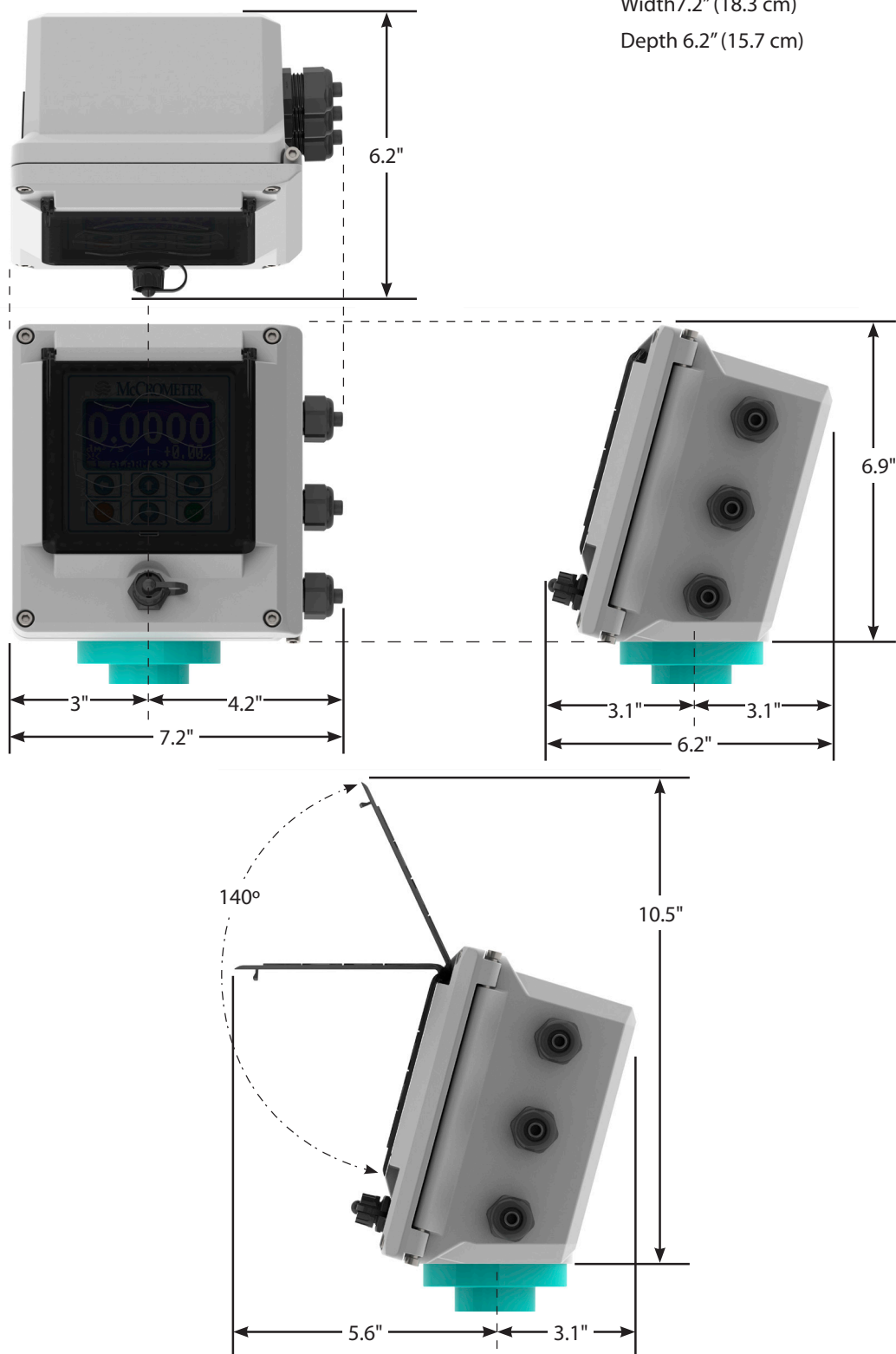
<b>Standard Model</b>	<ul style="list-style-type: none"><li>• ISO 9001:2015 certified quality management system</li><li>• Certified by MET to UL 61010-1 / CSA C22.2 No. 61010-1</li><li>• Certified to NSF / ANSI Standards*</li></ul>	  
<b>HL Model</b>	<ul style="list-style-type: none"><li>• ISO 9001:2015 certified quality management system</li><li>• Certified by MET: Safety: UL61010-1 / CSA C22.2 No. 61010-1, Third Edition: Safety of Electrical Equipment For Measurement, Control, and Laboratory Use</li><li>• Certified by MET: Standards: ANSI / ISA12.12.01 / CSA C22.2 No. 213, Nonincendive Electrical Equipment<ul style="list-style-type: none"><li>• Class I and II, Division 2</li><li>• Class III, Divisions 1 and 2 Hazardous (Classified)</li></ul></li><li>Locations</li><li>• Certified to NSF / ANSI Standards*</li></ul>	
* Certified by IAPMO R&T to NSF/ANSI 61 for material safety and NSF/ANSI 372 for low lead content.		

## PROCOMM CONVERTER METER MOUNT DIMENSIONS

Height 6.9" (20.1 cm)

Width 7.2" (18.3 cm)

Depth 6.2" (15.7 cm)

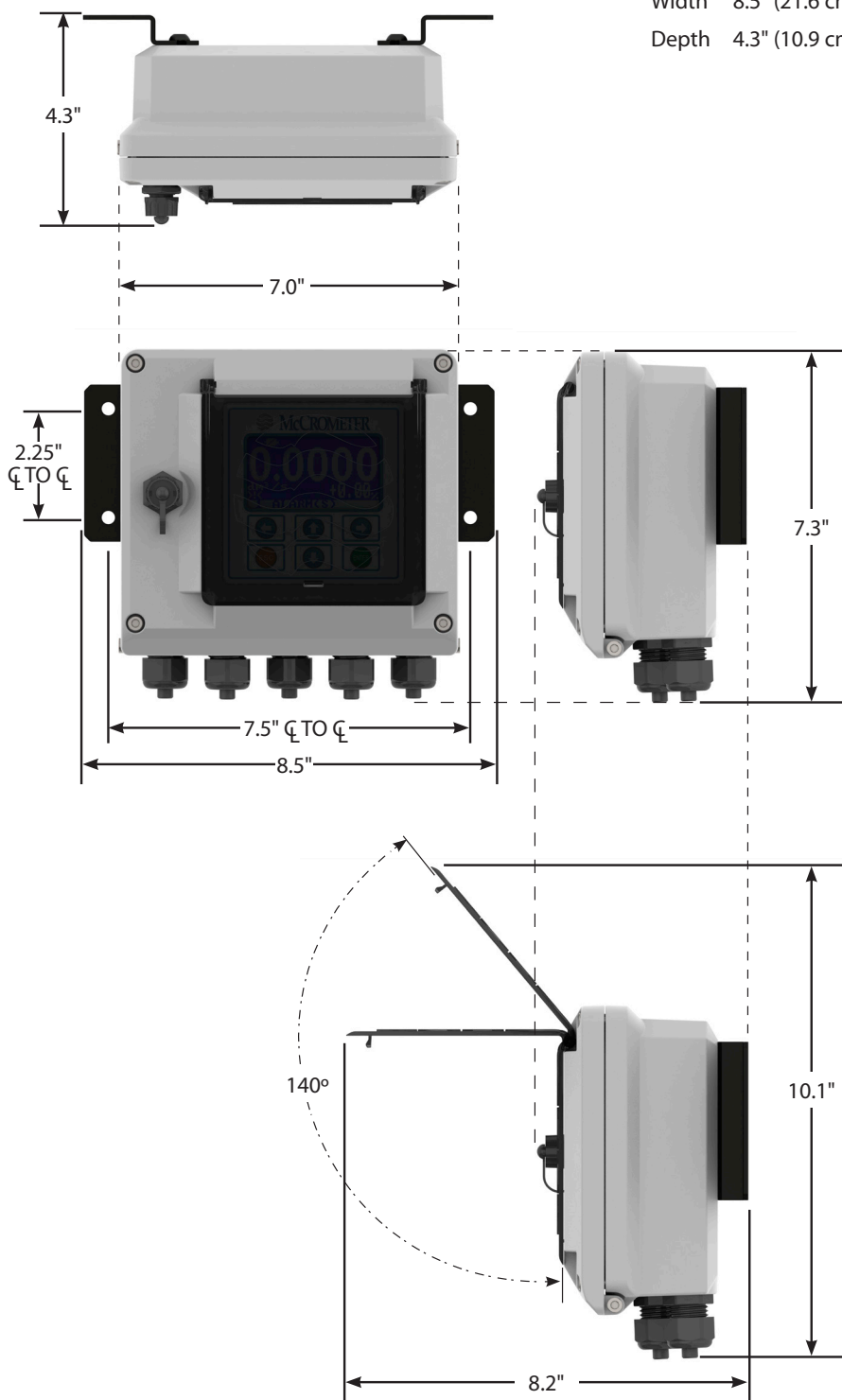


## PROCOMM CONVERTER REMOTE MOUNT DIMENSIONS

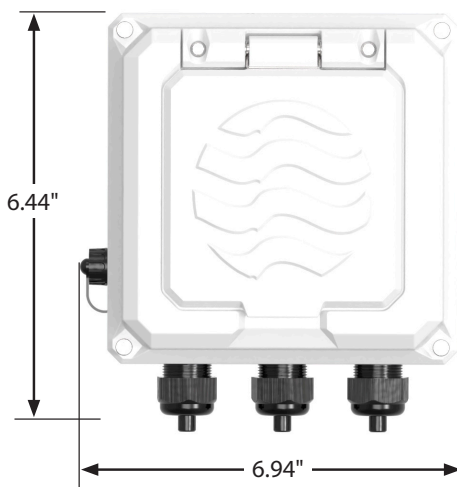
Height 7.3" (18.5 cm)

Width 8.5" (21.6 cm)

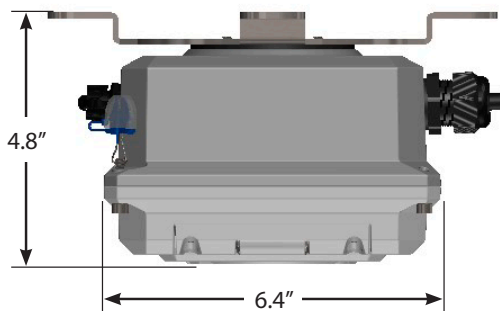
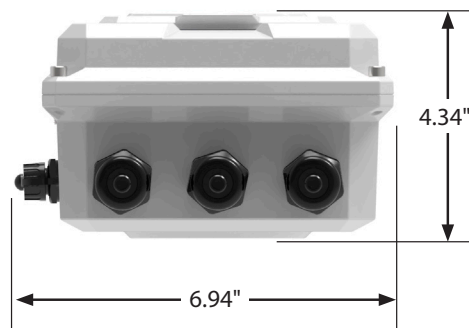
Depth 4.3" (10.9 cm)



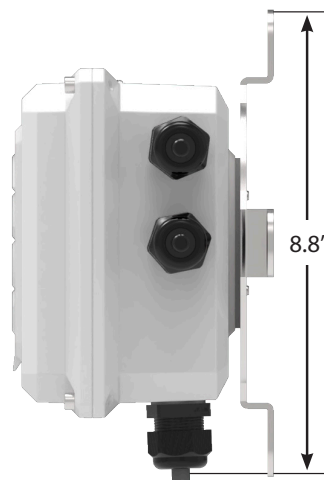
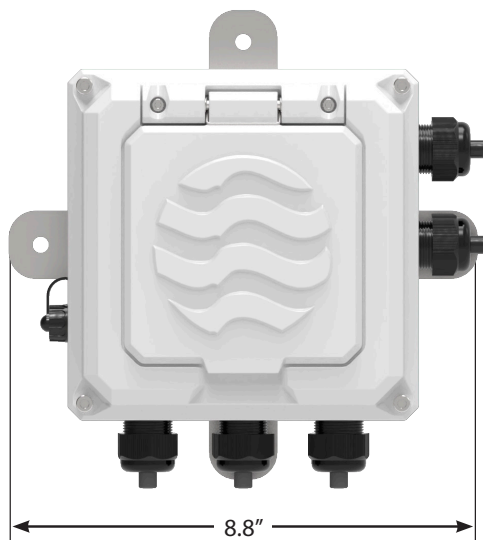
### PROCOMM GO CONVERTER DIMENSIONS



*Meter mount converter*



*Remote mount converter*



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