

FPI Mag® Sensor

ProComm® Converter





ProComm® GO Converter



on the market. The FPI Mag installs without service interruption making it ideal for retrofits, upgrades and maintenance projects and sites never metered before. The hot tap installation significantly reduces installation time eliminating the need to dewater lines or cut pipe.

The multi-electrode sensor delivers an accurate measurement of the full pipe profile rivaling the performance of a full-bore mag meter. The repeatable, stable measurement across the entire flow profile compensates for variable flow profiles, including swirl and turbulent conditions.

The FPI Mag is the industry's most economical flow metering solution offering unbeatable value in the cost of installation and ownership reducing installed costs by more than 45 percent in medium and large line sizes. The compact insertion design fits in confined spaces and offers complete accessibility. The flow meter can be removed in pipes under pressure for easy inspection, cleaning, calibrating, or verification. Installation costs are reduced by eliminating the need for heavy equipment and extensive manpower.

The innovative flow meter comes pre-calibrated from McCrometer's NIST traceable calibration labs and requires no recalibration in the field. With no moving parts and a single-piece design, the FPI Mag's sensor contains nothing to wear or break and is generally immune to clogging by sand, grit, or other debris. The electrodes are encased in a heavy-duty 316 stainless steel sensor body for maximum structural integrity and coated with a NSF certified 3M[™] fusion-bonded epoxy coating for operational longevity.

MUNICIPAL WATER AND WASTEWATER

The FPI Mag Full Profile Insertion mag meter supports the following water and wastewater treatment applications:

Water

- Distribution
- Effluent
- Filter balancing and backwash
- Pumping stations
- UV dosing
- Wells and booster stations

Wastewater

- Effluent
- Recycle / reclaim

The FPI Mag is ideal for chilled water in campus style facilities, hospitals, airports, hotels, casinos, etc.

INDUSTRIAL FACILITIES

The FPI Mag is also suitable for a variety of industrial facilities: power plants (including cogeneration), paper mills, chemical & petrochemical plants, metals & mining, and food & beverage.

Applications Include

- Cooling water
- Raw water
- Fire water Feed water
- Inlet to surge basin
- Effluent wastewater

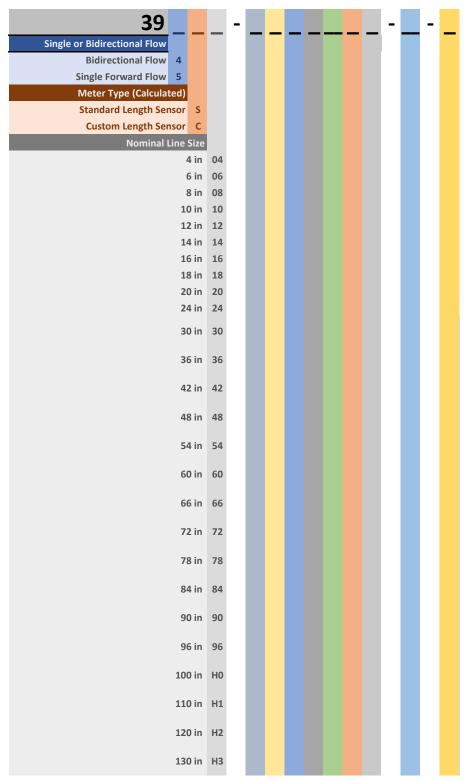
Benefits:

- Hot Tap Installation No service interruption
- Accurate Measures the full flow profile
- Lower Cost Installed savings more than 45%
- **Robust** No moving parts to wear or break
- Versatile Great for plant maintenance, upgrades and retrofits
- Accessible Insertion design provides easy access
- Virtually No Maintenance No field calibration required





PART NUMBER MATRIX FOR FPI MAG WITH PROCOMM CONVERTER





Continued on next page



PART NUMBER MATRIX FOR FPI MAG WITH PROCOMM CONVERTER (CONT.)

39 -			-		-	
Sensor Length Options (From Calc Sheet)		-				-
20" Sensor Length 020						
21" Sensor Length 021						
22" Sensor Length 022						
Each nominal Inch Length						
175" Sensor Length ##						
Electrode Material Options						
S316 Stainless Steel (Standard) S						
Hastelloy H						
Ball Valve Options						
2" NPT N						
2" BSPT B						
No Valve 2" NPT X						
No Valve 2" BSPT Y						
Remote Mount Cable Connector Options						
	0					
	Q					
	R					
Remote Cable Length Optio						
25 feet (Standar						
	et 050					
	et 075					
	et 100					
	et 125					
	et 150					
	et 175					
	eet 200					
	et 500					
Converter Power O						
	Power A					
	Power D					
Converter Outp	out Options					
Dual 4-20mA Analog, Dual Digital	. ,	1				
Modbus + STD (Two 4-2		2				
Hart + STD (Two 4-2	0, two Dig)	3				
Datalogger + STD (Two 4-2	0, two Dig)	4				
Datalogger + Modbus + STD (Two 4-2		5				
Datalogger + Hart + STD (Two 4-2	. 0,	6				
AMI Smart Output + STD (Two 4-2		7*				
Datalogger + AMI Smart Output + STD (Two 4-2		8*				
Smart Output Protocol Options (*7 or 8 outp		-				
	No AMI			-		
Sensus Protocol (6ft cable, Nicor Connec						
Itron 6 digit Protocol (6ft cable, Nicor Connec						
Itron 9 digit [100W] Protocol (6ft cable, Nicor Connec						
Neptune Protocol (6ft cable, Nicor Connec	tor hardwir	ed o	nly)	NEP		
Battery Power/ ATT wireless Telemetry System (RTU, Solar	-					
Battery Power/ Verizon wireless Telemetry System (RTU, Solar	r Panel, 7 Pi	n Ca	ble)	vzw		
	Hazardo	us A	rea l	Locat	tion	
Class	1, Division 2	, Gr	oups	A-D	, T5	HL





PART NUMBER MATRIX FOR FPI MAG WITH PROCOMM GO CONVERTER

20										
39	_ '		_	_	 	 _	-	_	-	_
Single or Bidirectional Flow										
Bidirectional Flow 4										
Single Forward Flow 5										
Meter Type										
Standard Length Sensor S										
Custom Length Sensor C										
Nominal Line Size										
4 in	04									
6 in	06									
8 in 10 in	08 10									
10 in 12 in	10									
12 in 14 in	12									
14 m 16 in	14									
18 in	18									
20 in	20									
24 in	24									
 30 in	30									
36 in	36									
42 in	42									
48 in	48									
54 in	54									
60 in	60									
66 in	66									
72 in	72									
78 in	78									
84 in	84									
90 in	90									
96 in	96									
100 in	HO									
110 in	H1									
120 in	H2									
130 in	_	_								
Sensor Length										
20" Senso										
21" Senso	r Leng	th 021								
22" Senso	r Leng	th 022								
Fach your include	hlen	th								
Each nominal Inc 175" Senso										
Electrode Mat										
S316 Stainless Stee			s							
SSTO Stamicss Stee		stelloy								
	rid:	stenoy								

Signature McCrometer

Continued on next page



PART NUMBER MATRIX FOR FPI MAG WITH PROCOMM GO CONVERTER (CONT.)

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39		_									_		_	
33	Dell	Velue	Options	—	—	-	—	—	—	—		-		-
	Dall	valve	2" NPT	NI										
			2 NPT 2" BSPT	N										
	Nic	- Valu	2 BSPT e 2" NPT	B										
			2" BSPT	Ŷ										
Domoto M		_												
	ount Cable (_										
4	25 ft Quick C		Strain R											
	Co		er Power											
			ower (St											
			, Battery											
			, Battery											
			r, Batter											
		_	erter Ou	·										
			o Output			_	_							
			utputs, D				0							
		140 04	-			l Out	1							
			4-20m/		0		2							
	4-2	0mA	Analog +		-		3							
			VII Smart		-		4							
			Output +		•		5							
	AMI Sma				-		6							
AMI Smart (•			0	7							
Aivii Sinart			Analog C	_	-	·	_							
			ver or Ou					-						
	No Cable - C			-				0						
			-		• •	en Le		1						
						en Le								
						en Le		3						
			Pulse					ions						
						ts (St	_		-					
	No Cab	le - Ou	utput Co	nfigu	ired	(Qui	ck Co	onn)	0					
					6 ft	(Ope	n Le	ads)	1					
				2	5 ft	(Ope	n Le	ads)	2					
				5	0 ft	(Ope	n Le	ads)	3					
	25 ft (2	7-Pin l	Vale con	nect	or fo	or Te	leme	etry)	4					
	50 ft ()	7-Pin ľ	Vale con	nect	or fo	or Te	leme	etry)	5					
			Outp	ut Ca	able	Tern	ninal	Opt	ions					
				St	rain	Relie	ef (St	and	ard)	1				
	Quick C	Connec	t Cable 1	[erm	inal	s (25	& 50) ft o	nly)	2				
Sm	art Output I	Protoc	ol Optio	ns (*	7 or	8 ou	tput	opt	ion r	equi	red)			
								No	AMI	Out	puts	-		
	Sensus Pro	tocol	(6ft cabl	e, Ni	cor (Conn	ecto	r har	dwir	red o	only)	SEN		
Itro	n 6 digit Pro	tocol	(6ft cabl	e, Ni	cor (Conn	ecto	r har	dwir	red o	only)	IT6		
Itron 9 digit	[100W] Pro	tocol	(6ft cabl	e, Ni	cor (Conn	ecto	r har	dwir	red o	only)	IT9		
Ν	leptune Pro	otocol	(6ft cabl	e, Ni	cor (Conn	ecto	r har	dwir	red o	only)	NEP		
Battery Power/ A	TT wireless	Telen	netry Sys	tem	(RTI	U, So	lar P	anel	, 7 Pi	in Ca	ble)	ATT		
Battery Power/ Veriz	on wireless	Telen	netry Sys	tem	(RTI	U, So	lar P	anel	, 7 Pi	in Ca	ble)	vzw	1	
								Haz	ardo	ous A	Area	Loca	tion	
						Clas	ss 1,	Divis	sion	2, Gr	oup	s A-C), T5	HL

Class 1, Division 2, Groups A-D, T5 HL





FLOW METER SPECIFICATIONS

The full pipe averaging flow meter comes complete with Mounting Hardware, AC Converter with Dual 4-20mA output, 25 Feet of Dual Submersible Cables with quick connects at sensor, Stainless Steel Body, 316 Stainless Steel Electrodes, NSF Approved Fusion Bonded Epoxy Coating, 2" Stainless Steel Ball Valve (minimum of 1-7/8" port I.D.), 2" x Close Stainless Steel Nipple, 2-Year Warranty.

Measurement	
	Volumetric flow in filled flow conduits 4" (100 mm) to 138" (3,500 mm) utilizing insertable electromagnetic averaging sensor. Flow indication in English Standard or Metric units.
Flow Measurement	
Method	Electromagnetic
Calibrated accuracy for forward and bidirectional sensors	 AC or DC power: ±0.5% of measured value ±0.006 ft/s (±0.0018 m/s) Battery power: ±1% of measured value ±0.006 ft/s (±0.0018 m/s) Reverse Flow: ±1% of measured value ±0.006 ft/s (±0.0018 m/s) Note: See section "Flow Meter Pipe Sizes and Flow Ranges with ProComm Converter" for a table of velocities by pipe size.
Linearity	0.3% of Range
Repeatability	0.2% of Reading
Direction measurement	 395 sensor - Forward flow measurement and reverse flow indication 394 sensor - bidirectional flow measurement
Materials	
Coating	Fusion bonded epoxy (NSF 61 approved) coated 316 stainless steel
Insertion hardware	316 Stainless Steel
Compression seal	Silicone Rubber
Sensor electrodes	316 Stainless Steel
Temperature Range	
Operation	-10 to 60°C (14 to 140°F) up to 250 PSI
Storage	-15 to 60°C (5 to 140° F)
	Note regarding storage: During freezing conditions and when meter is not in use, sensor must be removed from pipe and stored in dry conditions.
	Note: Damage to the sensor caused by allowing the sensor freeze in the pipe is not covered by the warranty.
Sensor Cable Length	15
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.
Electrical Connectio	ns
	Quick Connect Compression gland seals





IP Rating		
Standard model	 Quick Connect (IP68) Compression gland seals (IP68) 	
HL model	 Quick Connect (IP67) Compression gland seals (IP67) 	
Sensor Submersibili	ty Depth	
With standard quick connect	1.8 m (6 ft.)	
With optional strain relief cable	9 m (30 ft.)	
Certifications and A	pprovals	
Standard Model	 ISO 9001:2015 certified quality management system Certified by MET to UL 61010-1 / CSA C22.2 No. 61010-1 Certified to NSF / ANSI Standards* 	COMPONENT
HL Model	 ISO 9001:2015 certified quality management system Certified by MET to UL 61010-1 and MET C22.2 No. 61010-1-04 Class I, Division 2, Groups A B C D, T5 Class I, Zone 2, IIC T5 Certified to NSF / ANSI Standards* 	KF/AKSI 372
	* Certified by IAPMO R&T to NSF/ANSI 61 for material safety and NSF/ANS	il 372 for low lead content.
System Options		
	 Hastelloy[®] electrodes Additional sensor cable up to 475' (500' max for model 395 and a Extension to hardware clearance Annual verification / calibration Sensor insertion tool Stainless steel ID tag 	200' max for model 394)

Note regarding cable length: McCrometer recommends minimizing cable length. Electromagnetic flow meters may have unfavorable signal strength to noise ratio in electrically noisy environments. Longer lengths of cable increase the likelihood of interference. In those cases where the meter's signal must be transmitted a long distance, or where the environment may be particularly noisy, we suggest using the converter's analog output(s). That allows locating the converter as close as possible to the metering location.





FLOW METER PIPE SIZES AND FLOW RANGES WITH PROCOMM CONVERTER

IMPERIAL UNITS

Pipe Size (Nominal)	Pipe ID	Range		Ranges andard)	Standard Program Defaults ¹	Minimum Clearance Required During	Velocity Range ³			
(Nominal)	Min Pipe ID	Max Pipe ID	Min (GPM) ¹	Max (GPM) ¹	20mA (GPM)	Installation ²	(f/s)			
 S = Standard (Available in 395 models Pipe Sizes 4" - 24" as shown in table below) C = Custom (Available in all 394 and 395 models Pipe Sizes 4" - 138") Standard Length Hardware and Installation Clearance Dimensions are based on a 4" Maximum Height Coupling and Pipe Schedule Standard 										
4"	3.74	4.99	12	1280	1280	51"	0.3 - 32			
6"	5.00	7.24	26	2800	2800	51"	0.3 - 32			
8"	7.25	9.24	47	5000	5000	55"	0.3 - 32			
10"	9.25	11.24	80	8000	8000	55"	0.3 - 32			
12"	11.25	12.99	110	11000	11000	59"	0.3 - 32			
14"	13.00	14.99	150	15000	15000	59"	0.3 - 32			
16"	15.00	16.75	190	20000	20000	59"	0.3 - 32			
18"	16.76	18.80	240	26000	26000	63"	0.3 - 32			
20"	18.81	22.74	300	28000	28000	63"	0.3 - 28			
24"	22.75	24.99	410	33000	33000	67"	0.3 - 23			
30"	25.00	33.99	600	44000	44000	71.25"	0.3 - 20			
36"	34.00	39.99	1000	48000	48000	77.25"	0.3 - 15			
42"	40.00	45.99	1300	56000	56000	83.25"	0.3 - 13			
48"	46.00	51.99	1700	62000	62000	89.25"	0.3 - 11			
54″	52.00	57.99	2200	79000	79000	95.25″	0.3 - 11			
60"	58.00	63.99	2600	97000	97000	101.25"	0.3 - 11			
66″	64.00	69.99	3200	106000	106000	107.25″	0.3 - 10			
72"	70.00	75.99	3800	127000	127000	113.25"	0.3 - 10			
78″-128″	76.00	138.00		Availab	ole - Call Factor	y at 1-800-220-2279				

¹ Default totalizer units measured as KGAL.

² Hardware clearance after installation for all sizes is 28".

³ Flow temperature range -10° to 60° C (14° to 140° F) up to 250 PSI, max pressure is 250 psi.

! Required Information

At the time of ordering, please be prepared to provide the following information:

- 1. Pipe ID and Pipe OD
- 2. Unit of Measure (US Gallons is Default)
- 3. Maximum pressure
- 4. FPI Specification Data Sheet for custom length sensors





FLOW METER PIPE SIZES AND FLOW RANGES WITH PROCOMM CONVERTER

METRIC UNITS

Pipe Size	Pipe ID	Range		Ranges tandard)	Standard Program Defaults ¹	Minimum Clearance	Velocity			
(Nominal) (mm)	Min Pipe ID (mm)	Max Pipe ID (mm)	Min (m³/h)¹	Max (m³/h)¹	20mA	Required During Installation (cm) ²	Range ³ (m/s)			
 S = Standard (Available in 395 models pipe sizes 100 mm - 600 mm as shown in table below) C = Custom (Available in all 394 and 395 models pipe sizes 100 mm - 3,500 mm) Standard length hardware and installation clearance dimensions are based on a 100 mm maximum height coupling and pipe schedule standard 										
DN100	95	127	3	290	135	129.5	0.1 - 10			
DN150	127	184	6	635	295	129.5	0.1 - 10			
DN200	184	235	11	1135	535	139.7	0.1 - 10			
DN250	235	285	18	1815	900	139.7	0.1 - 10			
DN300	286	330	25	2500	1250	149.9	0.1 - 10			
DN350	330	381	35	3400	1700	149.9	0.1 - 10			
DN400	381	425	45	4550	2150	149.9	0.1 - 10			
DN450	426	478	55	5900	2700	160.0	0.1 - 10			
DN500	478	578	70	6350	3400	160.0	0.1 - 8.5			
DN600	578	635	95	7500	4650	170.2	0.1 - 7			
DN750	635	863	135	10000	6800	181.0	0.1 - 6			
DN900	864	1016	230	10900	8200	196.2	0.1 - 4.5			
DN1050	1016	1168	295	12700	10200	211.5	0.1 - 4			
DN1200	1168	1321	385	14000	12500	226.7	0.1 - 3.5			
DN1350	1321	1473	500	18000	14750	241.9	0.1 - 3.5			
DN1500	1473	1625	590	22000	18000	257.2	0.1 - 3.5			
DN1650	1626	1778	725	24000	20500	272.4	0.1 - 3			
DN1800	1778	1930	865	29000	22500	287.7	0.1 - 3			
DN2000 and up	1931									

¹ Default totalizer units measured as m³.

² Hardware clearance after installation for all sizes is 700 mm.

³ Flow temperature range -10° to 60° C (14° to 140° F) up to 17 bar, max pressure is 17 bar.

Required Information

At the time of ordering, please be prepared to provide the following information:

- 1. Pipe ID and pipe OD
- 2. Unit of measure (m³ is default)
- 3. Maximum pressure
- 4. FPI specification data sheet for custom length sensors





FLOW METER PIPE SIZES AND FLOW RANGES WITH PROCOMM GO CONVERTER

IMPERIAL UNITS

Pipe Size (Nominal)	Pipe ID	Range		Ranges andard)	Standard Program Defaults ¹	Minimum Clearance Required During	Velocity Range ³			
(Nominal)	Min Pipe ID	Max Pipe ID	Min (GPM) ¹	Max (GPM) ¹	20mA (GPM)	Installation ²	(f/s)			
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6"	5.00	7.24	43	2800	2800	51"	0.5 - 32			
8"	7.25	9.24	78	5000	5000	55"	0.5 - 32			
10"	9.25	11.24	130	8000	8000	55"	0.5 - 32			
12"	11.25	12.99	180	11000	11000	59"	0.5 - 32			
14"	13.00	14.99	250	15000	15000	59"	0.5 - 32			
16"	15.00	16.75	320	20000	20000	59"	0.5 - 32			
18"	16.76	18.80	400	26000	26000	63"	0.5 - 32			
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METRIC UNITS

Pipe Size	Pipe ID	Range		Ranges :andard)	Standard Program Defaults ¹	Minimum Clearance	Velocity			
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DN350	330	381	57	3400	1700	149.9	0.15 - 10			
DN400	381	425	73	4550	2150	149.9	0.15 - 10			
DN450	426	478	91	5900	2700	160.0	0.15 - 10			
DN500	478	578	114	6350	3400	160.0	0.15 - 8.5			
DN600	578	635	154	7500	4650	170.2	0.15 - 7			
DN750	635	863	227	10000	6800	181.0	0.15 - 6			
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DN1350	1321	1473	840	18000	14750	241.9	0.15 - 3.5			
DN1500	1473	1625	977	22000	18000	257.2	0.15 - 3.5			
DN1650	1626	1778	1204	24000	20500	272.4	0.15 - 3			
DN1800	1778	1930	1431	29000	22500	287.7	0.15 - 3			
DN2000 and up	1931	3505		Available -	Call Factory at 1-800-	220-2279				

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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)							
Hazardous Area Location							
Class 1, Division 2, G	roups A	-D, T5	H				





PROCOMM GO CONVERTER PART NUMBER MATRIX

PG	_	_	_	_	_	-		-	
Converter Mounting Options									
Meter Mount Converter (Standard) M									
Remote Mount R									
Converter Power Options									
Battery Power (Standard)	В								
Solar Power, Battery Backup	S								
A/C Power, Battery Backup	E								
DC Power, Battery Backup	F								
Converter Output Op No Outputs (Stan									
No Outputs (Stan		0							
Two Digita		1							
4-20mA Analog		2							
4-20mA Analog + Two Di		3							
AMI Smart Output	•	4							
AMI Smart Output + Two Di		5							
AMI Smart Output + 4-20mA A	•	6							
AMI Smart Output + 4-20mA Analog + Two Di		7							
DC Power/ Analog Out C	able O	ptions							
No DC Power or Output	s (Star	dard)	-						
No Cable - Output Configured	(Quick	Conn)	0						
6 ft (Open Leads - S	Strain	Relief)	1						
		Leads)	2						
		Leads)	3						
Pulse Ca									
			ndard)	-					
No Cable - Output Configured (Strain Re				0					
			Leads) Leads)	1					
			Leads)	2 3					
25 ft (7-Pin Male conne			-	4					
50 ft (7-Pin Male conne				5					
			ninal O						
			ef <i>(Star</i>		1				
Quick Connect (25	& 50 f	ft Cable	e lengtl	n only)	2				
Smart Output Protoco	l Optic	ons (*4	- 7 out	put opi	tion req	uired)			
				No	AMI O	utputs	-		
Sensus Protocol (6ft	cable	, Nicor	Conne	ctor ha	rdwired	d only)	SEN		
Itron 6 digit Protocol (6ft cable, Nicor Connector hardwired only)									
Itron 9 digit [100W] Protocol (6ft							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									
			C	000 1					
			C	ass 1,	visior	i z, Gro	ups A-D	, 15	HL





PROCOMM CONVERTER SPECIFICATIONS

Electronic Housing Diecast aluminum, powder coated enclosure w/ tamper resistant seal Remote Mount: Height: 73"(18.5 cm) Width: 8.5" (21.6 cm) Depth: 4.3"(10.9 cm) Note: AC or DC must Power Depth: 6.2"(15.7 cm) Depth: 6.2"(15.7 cm) Note: AC or DC must Note: AC or DC must Connection Options Compression gland seals for 0.24" to 0.47" diameter round cable - Conductivity Note: AC or DC must Galvanic Isolation Conductivity All inputs / outputs are galvanically isolated from power supply up to 500 V Minimum conductivity of 5µS/cm Indoor or outdoor use -4" to 140° F (-20° to 60° C) Maximum switching yet outputs: Galvanically isolated and fully programmable for zero and full scale (0-21mA rangeability) Standard Outputs Volumetric Pulse - How Rate (Frequency) - Hardware Alarm - How Rate (Frequency) - Hardware Alarm - How Rate (Frequency) - Hardware Alarm - Directional Indication - How	Physical Specification	ons				
Converter DimensionsWidth: 8.5" (21.6 cm) Depth: 4.3" (10.9 cm) Meter Mount:Depth: 4.3" (10.9 cm) Meter Mount:PowerAC Power: D 00-240 VAC / 45-66 Hz (10 W)Note: AC or DC must be specified at time of ordering.PowerAC Power: D 0.240 VAC / 45-66 Hz (10 W)Note: AC or DC must be specified at time of ordering.Connection Options. Compression gland seals for 0.24" to 0.47" diameter round cable . ConductivityNote: AC or DC must be specified at time of ordering.Galvanic Isolation ConductivityAll inputs / outputs are galvanically isolated from power supply up to 500 VPerformance and Operational SpecificationsIndoor or outdoor use 0perating and Storage TemperatureIndoor or outdoor use (0-21 mA rangeability)IP RatingIP67 Die cast aluminum converter (only when connected using compression gland seals)Standard Outputs. Range Indication . Notimetric Pulse, frequency, or alar settings.Optional Outputs. Range Indication . Maximum switching . Undertic Pulse . High/Low Flow Alarm . Directional Indication. Range Indication . Maximum switching . Insulation from other . Insulation from other . Insulation from other . Built-in verificationOptional Outputs. Modbus . HART. Smart Output" (Sensus, . Itron 6, Itron 9). Datalogger . Built-in verificationDisplay and Measurement. Gan be used to access and change set-up parameters using six membrane keys and an LCD display	Electronic Housing	Diecast aluminu	n, powder co	oated enclosure w/ tamper res	istant seal	
Converter DimensionsDepth: 4.3" (10.9 cm) Height: 6.9" (17.5 cm) Depth: 6.2" (17.5 cm) Depth: 6.2" (15.7 cm)Note: AC or DC must besepcified at time of ordering.PowerAC Power:12-48 VDC (10 W)Note: AC or DC must besepcified at time of ordering.Connection OptionsCompression gland seals for 0.24" to 0.47" diameter round cable - Conduit option: 1/2" NPT threaded connectionsNote: AC or DC must besepcified at time of ordering.Connection OptionsCompression gland seals for 0.24" to 0.47" diameter round cable - Conduit option: 1/2" NPT threaded connectionsNote: AC or DC must besepcified at time of ordering.Performance and Operational SpecificationsInformation onductivity of \$µS/cmPerformance and \$\frac{100^\circ}{100^\circ} F (-20^\or to 60^\or C)Performance and Operating and storage Temperature IP RatingInformation on outdoor useInformation on outdoor useOperating and to 140° F (-20° to 60° C)Information on outdoor useInformation on outdoor useOperating and to 140° F (-20° to 60° C)Information on outdoor useInformation on outdoor useIndustry of the store outdoor outdoor useInformation outdoor useInformation outdoor useInformation outdoor useOperating and to 140° F (-20° to 60° C)Information outdoor useInformation outdoor useInformation outdoor useIndustry outdoor outputs: calvanically isolated and fully programmable for zero and full scale (0-21 mA rangeability)Note: Act output: Sealanical witching requency: 1250 Hz <t< th=""><th></th><th>Remote Mount:</th><th>-</th><th></th><th></th><th></th></t<>		Remote Mount:	-			
DimensionsMeter Mount: Width: 7.2" (18.25 cm) Depth: 6.2" (15.7 cm)PowerAC Power: DC Power: 12-48 VDC (10 W)Note: AC or DC must be specified at time of ordering.Connection OptionsCompression gland seals for 0.24" to 0.47" diameter round cable - Conduit option: 1/2" NPT threaded connectionsNote: AC or DC must be specified at time of ordering.Connection OptionsAll inputs / outputs are galvanically isolated from power supply up to 500 VNote: AC or DC wertGalvanic Isolation ConductivityAll inputs / outputs are galvanically isolated from power supply up to 500 VPerformance and Operational SpecificationsIcocation Operating and Storage TemperatureIndoor or outdoor use	Convortor					
Width: 7.2" (18.25 cm) Depth: 6.2" (15.7 cm) AC Power: 100-240 VAC / 45-66 Hz (10 W) Note: AC or DC must be specified at time of ordering. Connection Options Compression gland seals for 0.24" to 0.47" diameter round cable - Conduit option: 1/2"NPT threaded connections Note: AC or DC must be specified at time of ordering. Galvanic Isolation Conductivity All inputs / outputs are galvanically isolated from power supply up to 500 V Performance and Operational Specifications Indoor or outdoor use		Meter Mount				
Power Depth: 6.2" (15.7 cm) AC Power: 100-240 VAC / 45-66 Hz (10 W) Note: AC or DC must be specified at time of ordering. Connection Options Compression gland seals for 0.24" to 0.47" diameter round cable Conduit option: 1/2" NPT threaded connections Galvanic Isolation Conductivity All inputs / outputs are galvanically isolated from power supply up to 500 V Minimum conductivity of 5µS/cm Indoor or outdoor use Indoor or outdoor use Operating and Storage Temperature IP Rating Indoor or outdoor use Indoor occlose of color CO Standard Outputs IP67 Die cast aluminum converter (only when connected using compression gland seals) Dual 4-20mA Outputs: Galvanically isolated and fully programmable for zero and full scale (0-21mA rangeability) Maximum switching voltage: 40 VDC Maximum switching frequency, or alarm settings. Volumetric Pulse Range Indication Maximum switching voltage: 40 VDC Maximum switching frequency: 1250 Hz Insulation from other secondary circuits: 500V Optional Outputs Modbus Smart Output" (Sensus, Itron 6, Itron 9) Datalogger Built-in verification Display and Measuremett Can be used to access and change set-up parameters using six membrane keys and an LCD display.	Dimensions	weter wount.				
Power DC Power: 12-48 VDC (10 W) be specified at time of ordering. Connection Options - Compression gland seals for 0.24" to 0.47" diameter round cable - Conduit option: 1/2" NPT threaded connections Galvanic Isolation All inputs / outputs are galvanically isolated from power supply up to 500 V Minimum conductivity of 5µS/cm Minimum conductivity of 5µS/cm Performance and Operational Specifications Indoor or outdoor use Location Indoor or outdoor use 0perating and -4° to 140° F (-20° to 60° C) IP Rating IP67 Die cast aluminum converter (only when connected using compression gland seals) 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. • Volumetric Pulse • Range Indication • High/Low Flow Alarms • Maximum switching voltage: 40 VDC • High/Low Flow Alarms • Smart Output" (Sensus, Itron 6, Itron 9) • Dizectional Indication • Datalogger • Modbus • Smart Output" (Sensus, Itron 6, Itron 9) • Datalogger • Built-in verification						
Connection OptionsDC Power:12-48 VDC (10 W)of ordering.Connection Options- Compression gland seals for 0.24" to 0.47" diameter round cable - Conduit option: 1/2" NPT threaded connectionsGalvanic Isolation ConductivityAll inputs / outputs are galvanically isolated from power supply up to 500 VPerformance and Operational SpecificationsLocation Operating and Storage TemperatureIP RatingIndoor or outdoor use -4" to 140° F (-20° to 60° C)IP RatingIP67 Die cast aluminum converter (only when connected using compression gland seals) Dual 4-20mA Outputs: Galvanically isolated and fully programmable for zero and full scale (0-21mA rangeability)Standard Outputs• Volumetric Pulse • Flow Rate (Frequency) • Hardware Alarm • High/Low Flow Alarms • Empty Pipe • Directional Indication• Maximum switching requency: 1250 Hz • Maximum switching current: 100mAOptional Outputs• Modolus • HART• Smart Output" (Sensus, Itron 6, Itron 9)• Datalogger • Built-in verificationLocation • Modolus • HART• Can be used to access and change set-up parameters using six membrane keys and an LCD display		AC Power:	100-240 VA0	C / 45-66 Hz (10 W)		
Connection Options - Conduit option: 1/2" NPT threaded connections Galvanic Isolation All inputs / outputs are galvanically isolated from power supply up to 500 V Minimum conductivity of 5µS/cm Performance and Operational Specifications Location Indoor or outdoor use -4° to 140° F (-20° to 60° C) IP Rating IP67 Die cast aluminum converter (only when connected using compression gland seals) 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. • Volumetric Pulse • Range Indication • Flow Rate (Frequency) • Maximum switching voltage: 40 VDC • High/Low Flow Alarms • Maximum switching current: 100mA • Directional Indication • Smart Output" (Sensus, Itron 6, Itron 9) • Modbus • Smart Output" (Sensus, Itron 6, Itron 9) • Display and Measurement Can be used to access and change set-up parameters using six membrane keys and an LCD display	Power	DC Power:	12-48 VDC (10 W)		
Conductivity Minimum conductivity of 5μS/cm Performance and Operational Specifications Location Indoor or outdoor use Operating and Storage Temperature Indoor of (-20° to 60° C) IP Rating IP67 Die cast aluminum converter (only when connected using compression gland seals) Dual 4-20mA Outputs: Galvanically isolated and fully programmable for zero and full scale (0-21mA rangeability) Standard Outputs • Noumetric Pulse • Flow Rate (Frequency) • Hardware Alarm • High/Low Flow Alarms • Directional Indication • Range Indication • Maximum switching requency, or alarm settings. • Maximum switching frequency: 1250 Hz Optional Outputs • Modbus • HART • Smart Output" (Sensus, Itron 6, Itron 9) • Datalogger • Built-in verification Display and Measurement Can be used to access and change set-up parameters using six membrane keys and an LCD display	Connection Options				d cable	
Performance and Operational Specifications Location Operating and Storage Temperature IP Rating Indoor or outdoor use JP Rating -4° to 140° F (-20° to 60° C) Standard Outputs IP67 Die cast aluminum converter (only when connected using compression gland seals) Dual 4-20mA Outputs: Galvanically isolated and fully programmable for zero and full scale (0-21mA rangeability) 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. • Range Indication • Maximum switching voltage: 40 VDC • Maximum switching frequency: 1250 Hz • Volumetric Pulse • Flow Rate (Frequency) • Range Indication • Maximum switching current: 100mA • Maximum switching frequency: 1250 Hz • Directional Indication • Modbus • Directional Indication • Smart Output [*] (Sensus, Itron 6, Itron 9) • Datalogger • Built-in verification Display and Measurement Can be used to access and change set-up parameters using six membrane keys and an LCD display	Galvanic Isolation	All inputs / output	uts are galvar	nically isolated from power su	pply up to 5	00 V
Location Operating and Storage Temperature IP RatingIndoor or outdoor use-4° to 140° F (-20° to 60° C)IP RatingStandard OutputsStandard OutputsStandard OutputsOptional OutputsOptional OutputsOptional OutputsCoptional Outputs <tr< th=""><th>Conductivity</th><th>Minimum condu</th><th>ctivity of 5µS</th><th>/cm</th><th></th><th></th></tr<>	Conductivity	Minimum condu	ctivity of 5µS	/cm		
Operating and Storage Temperature-4° to 140° F (-20° to 60° C)IP RatingIP67 Die cast aluminum converter (only when connected using compression gland seals)Standard OutputsDual 4-20mA Outputs: Galvanically isolated and fully programmable for zero and full scale (0-21mA rangeability)Standard OutputsTwo separate digital programmable outputs: open collector transistor usable for pulse, frequency, or alarm settings.• Volumetric Pulse • Flow Rate (Frequency) • Hardware Alarm • High/Low Flow Alarms • Empty Pipe • Directional Indication• Maximum switching requency: 1250 Hz • Insulation from other secondary circuits: 500VOptional Outputs• Modbus • HART• Smart Output" (Sensus, Itron 6, Itron 9)• Datalogger • Built-in verificationDisplay and Measurement Keyboard and DisplayCan be used to access and change set-up parameters using six membrane keys and an LCD display	Performance and O	perational Spe	cifications	j		
Storage Temperature -4* to 140*F (-20* to 60* C) IP Rating IP67 Die cast aluminum converter (only when connected using compression gland seals) 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. • Volumetric Pulse • Range Indication • Flow Rate (Frequency) • Maximum switching voltage: 40 VDC • Hardware Alarm • Naximum switching current: 100mA • Directional Indication • Smart Output* (Sensus, Itron 6, Itron 9) • Modbus • Smart Output* (Sensus, Itron 6, Itron 9) • Display and Measurement Can be used to access and change set-up parameters using six membrane keys and an LCD display	Location	Indoor or outdoo	or use			
Standard Outputs 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. • Naximum switching voltage: 40 VDC • Volumetric Pulse • Range Indication • Maximum switching requency: 1250 Hz • Hardware Alarm • Naximum switching voltage: 40 VDC • Insulation from other secondary circuits: 500V • High/Low Flow Alarms • Maximum switching current: 100mA • Directional Indication • Modbus • Smart Output" (Sensus, Itron 6, Itron 9) • Datalogger • HART Itron 6, Itron 9) • Built-in verification Can be used to access and change set-up parameters using six membrane keys and an LCD display		-4° to 140° F (-20	° to 60° C)			
Standard Outputs (0-21mA rangeability) Two separate digital programmable outputs: open collector transistor usable for pulse, frequency, or alarm settings. • Volumetric Pulse • Range Indication • Maximum switching frequency: 1250 Hz • Flow Rate (Frequency) • Maximum switching voltage: 40 VDC • Insulation from other secondary circuits: 500V • High/Low Flow Alarms • Maximum switching current: 100mA • Directional Indication • Modbus • Smart Output" (Sensus, Itron 6, Itron 9) • Datalogger • HART Can be used to access and change set-up parameters using six membrane keys and an LCD display	IP Rating	IP67 Die cast alu	minum conve	erter (only when connected us	sing compre	ession gland seals)
Standard Outputs Two separate digital programmable outputs: open collector transistor usable for pulse, frequency, or alarm settings. • Volumetric Pulse • Range Indication • Maximum switching frequency: 1250 Hz • Flow Rate (Frequency) • Maximum switching voltage: 40 VDC • Insulation from other secondary circuits: 500V • High/Low Flow Alarms • Maximum switching current: 100mA • Directional Indication • Datalogger • Modbus • Smart Output" (Sensus, Itron 6, Itron 9) • Datalogger • Built-in verification Display and Measurement Can be used to access and change set-up parameters using six membrane keys and an LCD display Can be used to access and change set-up parameters using six membrane keys and an LCD			•	nically isolated and fully prog	grammable f	for zero and full scale
 Volumetric Pulse Flow Rate (Frequency) Hardware Alarm High/Low Flow Alarms Empty Pipe Directional Indication Modbus HART Smart Output[™] (Sensus, Itron 6, Itron 9) Datalogger Built-in verification Built-in verification 	Standard Outputs	Two separate di	gital program	nmable outputs: open colle	ctor transis	tor usable for pulse,
• Hardware Alarm voltage: 40 VDC • Insulation from other secondary circuits: 500V • High/Low Flow Alarms • Maximum switching current: 100mA • Insulation from other secondary circuits: 500V • Optional Outputs • Modbus • Smart Output* (Sensus, Itron 6, Itron 9) • Datalogger • Display and Measurement • Can be used to access and change set-up parameters using six membrane keys and an LCD display		· · · ·	-	Range Indication	• Maxim	um switching
• High/Low Flow Alarms • Empty Pipe • Directional Indication • Maximum switching current: 100mA secondary circuits: 500V Optional Outputs • Modbus • HART • Smart Output" (Sensus, Itron 6, Itron 9) • Datalogger • Built-in verification Display and Measurement Can be used to access and change set-up parameters using six membrane keys and an LCD display		Flow Rate (Free	quency)			
• Empty Pipe current: 100mA • Directional Indication • Smart Output [™] (Sensus, Itron 6, Itron 9) • Datalogger • Display and Measurement • Same Compared Set-up parameters using six membrane keys and an LCD display Keyboard and Display Can be used to access and change set-up parameters using six membrane keys and an LCD						
• Directional Indication • Directional Indication • Modbus • Smart Output ^{**} (Sensus, Itron 6, Itron 9) • Datalogger • Display and Measurement • Built-in verification Keyboard and Display Can be used to access and change set-up parameters using six membrane keys and an LCD display		-	/ Alarms	5	second	lary circuits: 500V
Optional Outputs • Modbus • HART • Smart Output ^{**} (Sensus, Itron 6, Itron 9) • Datalogger • Built-in verification Display and Measurement • Can be used to access and change set-up parameters using six membrane keys and an LCD display			lication	current: 100mA		
Optional Outputs · HART Itron 6, Itron 9) · Built-in verification Display and Measurement Can be used to access and change set-up parameters using six membrane keys and an LCD display			lication	 Smart Output[™] (Sensus 	Datalo	ager
Keyboard and Display Can be used to access and change set-up parameters using six membrane keys and an LCD display	Optional Outputs					
display	Display and Measur	ement				
display	Keyboard and Display	Can be used to a	ccess and cha	ange set-up parameters using	six membra	ane keys and an LCD
Cubic Meter US Gallons Imperial Kilogallon	Reyboard and Display	i				
					•	-
Cubic Centimeter Imperial Gallons Acre Feet			ter	-		
Milliliter Cubic Feet Megagallon						
Engineering Units• Liter• Kilo Cubic Feet• Imperial Megagallon• Cubic Decimeter• Standard Barrel• Hundred Cubic Feet	Engineering Units		or			
• Decaliter • Oil Barrel • Oil Barrel • Megaliters						
Hectoliter US Kilogallon					megun	
Cubic Inches • Ten Thousands of Gallons		Cubic Inches				





PROCOMM CONVERTER SPECIFICATIONS (CONT.)

Other Specifications						
Standard Model	 ISO 9001:2015 certified quality management system CE Certified by MET to UL 61010-1 					
HL Model	 ISO 9001:2015 certified quality management system CE Certified by MET to UL 61010-1 and MET C22.2 No. 61010-1-04 Class I, Division 2, Groups A B C D, T5 Class I, Zone 2 IIC T5 					
	IMPORTANT Refer to certification requirements. Do not substitute compo	nents.				
	IMPORTANT The ProComm converter, models PC-RA1-HL series and PC-N no user serviceable parts.	The ProComm converter, models PC-RA1-HL series and PC-MA1-HL series have				





PROCOMM GO CONVERTER SPECIFICATIONS

Physical Specifications									
Electronic Housing	Diecast aluminum, powder coated enclosure w/ tamper resistant seal, 6½" x 6½" x 43/8" tall								
Converter Dimensions	See "Dimensions" section for meter mount and remote mount converter dimensions.								
Power	Battery:Standard: three 3.6V lithium-thionyl chloride (Li-SOCI2) D siz batteries with two AA backup batteriesAC Power:100-240VAC/45-66Hz (4W)								
			er supply 10-35VDC (4 V	V)					
Electrical	Optional shielded cable for 10-32VDC/4-20 mA output								
Connections	Optional shielded cable for pulse out								
-	erformance and Operational Specifications								
Battery Life	Five-year expected battery life, five-year battery warranty								
Location	Indoor or outdoor use								
Altitude	Operating: 2000 meters Storage: 12,000 meters								
Operating Temperature	-4° to 140° F (-20° to 60° C)								
Storage Temperature	-4° to 140° F (-20° to 60° C)								
Relative Humidity	0% to 100%								
IP Rating	IP67 Die cast aluminum converter								
Outputs	Digital output: Digital pulse (open collector) output for volumetric - Two isolated digital pulse (open collector) outputs for volumetric - AMI output Analog output: 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 Measur	ement								
Display	 2-Line LCD display (no backlight) Non-volatile memory Anti-reverse totalizer (standard) Total (to 9 digits of precision) Flow rate and velocity (to 5 digits of precision) Two alarms: low battery and empty pipe (optional) Opening lid activates display 			and empty pipe					
Digits	5 Rate, 9 Total								
Units	GPM Gallons per minute MGD Mega gal per day CFS Cubic feet per secon MLD Megaliters per day LPS Liters per second CMH Cubic meters per ho LPM Liters per minute GPH Gallons per hour	MI9 M d MI1 M APD A KLH K ur LPH L CMM C	mperial gal per minute Miners inch (9G) Miners inch (11.22G) Acre feet per day Kiloliters per hour Liters per hour Cubic meters per minute Cubic feet per minute	CFM B5M B5H B5D B4M B4H B4D	Cubic feet per minute Barrels per minute (55G) Barrels per hour (55G) Barrels per day (55G) Barrels per minute (42G) Barrels per hour (42G) Barrels per day (42G)				

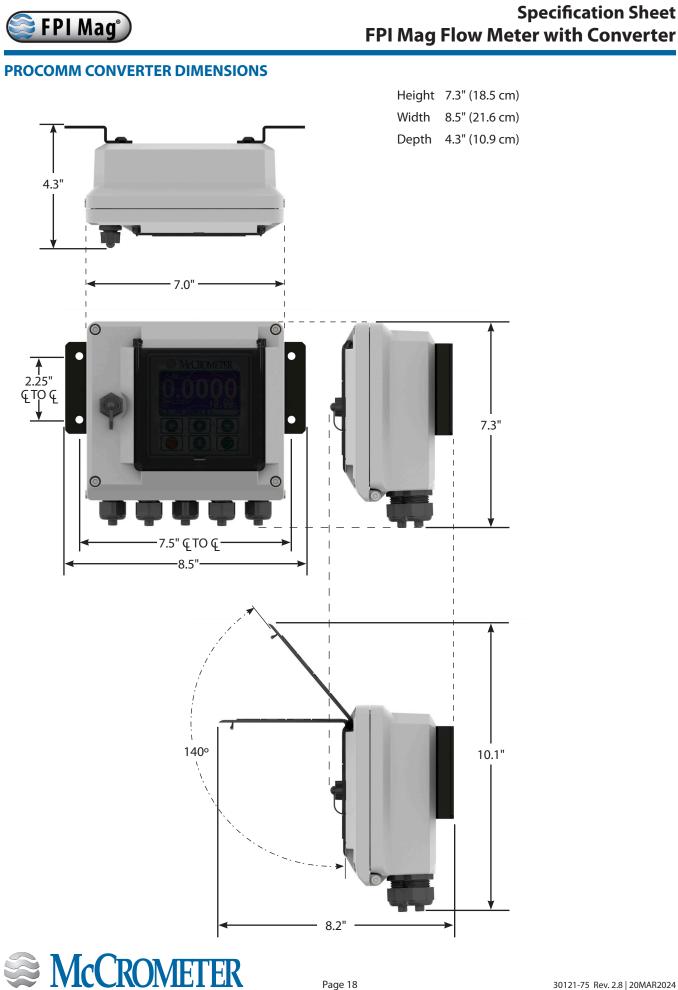




Specification Sheet FPI Mag Flow Meter with Converter

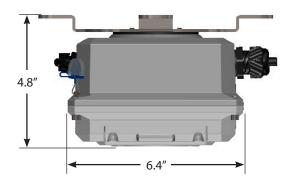
Totalizer Units	GAL	Gallons	B42	Barrel (42G)	MH1	Miners Inch Hour (11.22G)	
	CUF	Cubic Feet	B46	Barrel (46G)	MD1	Miners Inch Day (11.22G)	
	AFT	Acre Feet	B55	Barrel (55G)	MH9	Miners Inch Hour (9G)	
	CUM	Cubic Meters	IMG	Imperial Gallon	MD9	Miners Inch Day (9G)	
	LIT	Liters	AIN	Acre Inch	KGL	Kilo Gallons	
	MML	Megaliter	TON	Ton (Short)	MGL	Mega Gallons	
	MTT	Metric Ton (KL)	MM1	Miners Inch Minute (11.22G)	IN3	Cubic Inch	
	B31	Barrel (31G)	MM9	Miners Inch Minute (9G)			
Data Logger	Standard with all models, minimum of five years of data stored						
Other Specifications							
Options and Accessories	Data Logger - included as standard with five years of data storage at default (12hr)						
	interval. (Cable sold separately)						
	AC, DC, and battery powered with battery backup powered available						
Safety	IEC 61010-1, Pollution Degree II						
	Overvoltage protection Category III						
Certifications			J.				
Standard Model	• ISO	9001:2015 certified	l quality n	nanagement system			
	Certified by MET to UL 61010-1						
HL Model				nanagement system	1		
	• Certified by MET to UL 61010-1 and MET C22.2 No. 61010-1-04						
	 Class I, Division 2, Groups A B C D, T5 						
		lass I, Zone 2 IIC T5	•	<i>c b</i> , 15			
			,				

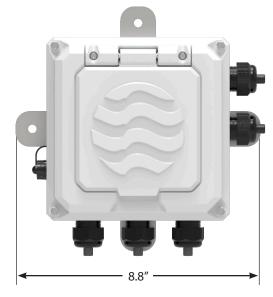




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PROCOMM GO CONVERTER DIMENSIONS







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