

FPI Mag® Sensor

ProComm® Converter





ProComm® GO Converter



The FPI Mag® (Full Profile Insertion) electromagnetic flow meter is the only hot tap full profile insertion flow meter available

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
- Pumping stations
- Effluent
- UV dosing
- Filter balancing and backwash
- 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
- Inlet to surge basin
- · Feed water
- Effluent wastewater

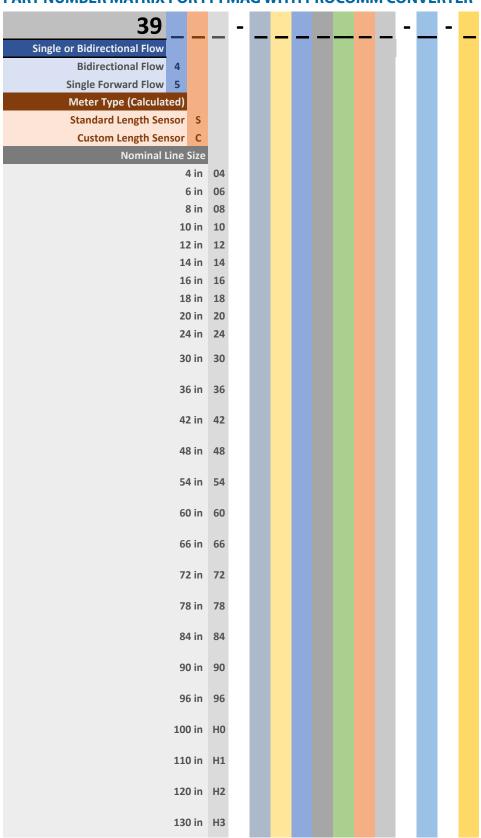
Benefits:

- 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





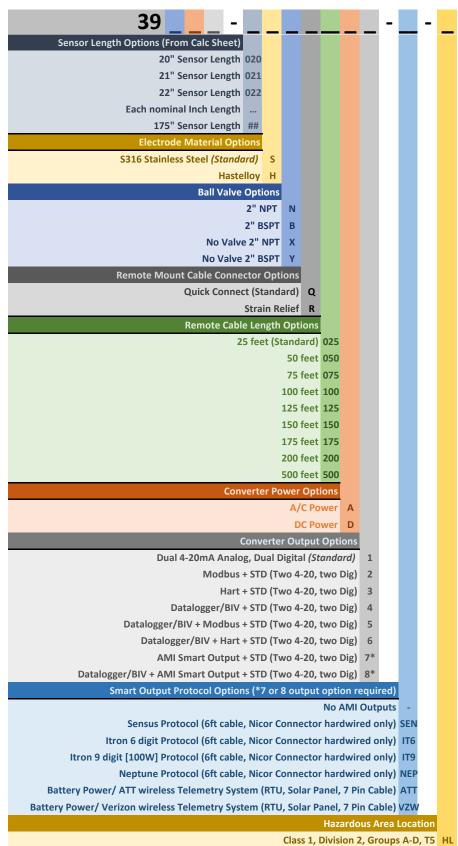
PART NUMBER MATRIX FOR FPI MAG WITH PROCOMM CONVERTER







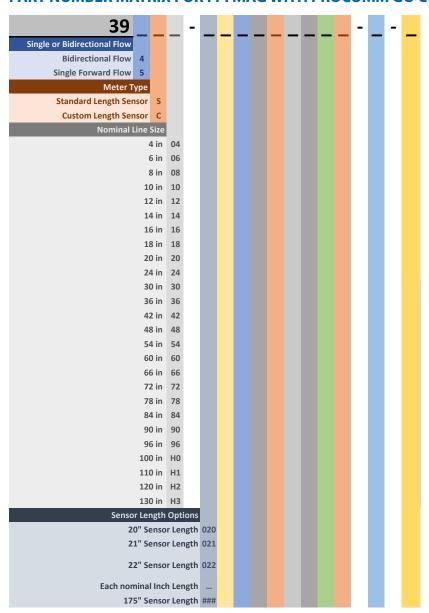
PART NUMBER MATRIX FOR FPI MAG WITH PROCOMM CONVERTER (CONT.)







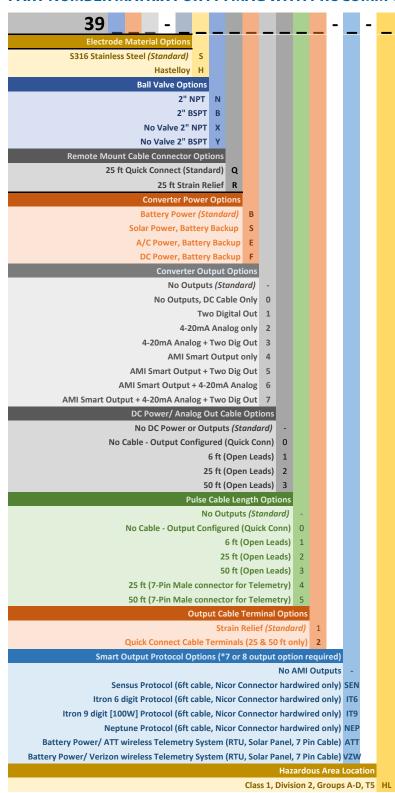
PART NUMBER MATRIX FOR FPI MAG WITH PROCOMM GO CONVERTER







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





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: $\pm 0.5\%$ 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: $\pm 1\%$ 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 Compression seal

316 Stainless Steel

Sensor electrodes

Silicone Rubber 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 Lengths

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 Connections

- 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 Submersibility Depth

With standard quick connect

1.8 m (6 ft.)

With optional strain relief cable

9 m (30 ft.)

Certifications and Approvals

Standard Model

- ISO 9001:2015 certified quality management system
- NSF/ANSI/CAN 61 & NSF/ANSI 372
- · Certified by MET to UL 61010-1

HL Model

- ISO 9001:2015 certified quality management system
- NSF/ANSI/CAN 61 & NSF/ANSI 372
- Certified by MET to UL 61010-1 and MET C22.2 No. 61010-1-04
 - Class I, Division 2, Groups A-D, T5
 - Class I, Zone 2, IIC T5



System Options

- · Hastelloy® electrodes
- Additional sensor cable up to 475' (500' max for model 395 and 200' max for model 394)
- Extension to hardware clearance
- Annual verification / calibration
- Sensor insertion tool
- Stainless steel ID tag

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		Flow Ranges (GPM Standard)		Standard Program Defaults ¹	Minimum Clearance Required During	Velocity Range ³		
(NOMMa)	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.

! 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



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.



FLOW METER PIPE SIZES AND FLOW RANGES WITH PROCOMM CONVERTER METRIC UNITS

Pipe Size	Pipe ID Range		Flow Ranges (m³/h standard)		Standard Program Defaults ¹	Minimum Clearance	Velocity		
(Nominal) (mm)	Min Max Min Max Dipe ID Pipe ID (m³/h)¹ (m³/h)¹ 20mA Inst		Required During Installation (cm) ²	Range³ (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)								
	th hardware a				mm - 3,500 mm) ased on a 100 mm maxim	um height coupli	ng and pipe		
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	3505		Available -	Call Factory at 1-800-	220-2279			

¹ Default totalizer units measured as m³.

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



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.



FLOW METER PIPE SIZES AND FLOW RANGES WITH PROCOMM GO CONVERTER IMPERIAL UNITS

Pipe Size (Nominal)	Pipe ID Range		Flow Ranges (GPM Standard)		Standard Program Defaults ¹	Minimum Clearance Required During	Velocity Range ³		
(NOMINIAI)	Min Pipe ID	Max Pipe ID	Min (GPM) ¹	Max (GPM) ¹	20mA (GPM)	Installation ²	(f/s)		
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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		
20"	18.81	22.74	500	28000	28000	63"	0.5 - 28		
24"	22.75	24.99	680	33000	33000	67"	0.5 - 23		
30"	25.00	33.99	1000	44000	44000	71.25"	0.5 - 20		
36"	34.00	39.99	1700	48000	48000	77.25"	0.5 - 15		
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60"	58.00	63.99	4300	97000	97000	101.25"	0.5 - 11		
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72"	70.00	75.99	6300	127000	127000	113.25"	0.5 - 10		
78"-128"	76.00	138.00		Availab	le - Call Factor	y at 1-800-220-2279			

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



FLOW METER PIPE SIZES AND FLOW RANGES WITH PROCOMM GO CONVERTER METRIC UNITS

Pipe Size	Pipe ID Range (m³/h s		w Ranges Standard Program h standard) Defaults ¹		Minimum Clearance	Velocity	
(Nominal) (mm)	Min Pipe ID (mm)	Max Pipe ID (mm)	Pipe ID $ Min Max 20mA Installation$		During Installation	Range ³ (m/s)	
					nm as shown in table k	pelow)	
	th hardware				mm - 3,500 mm) ased on a 100 mm maxim	um height coupli	ng and pipe
		127	_	200	125	120.5	0.45 40
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DN250	235	285	30	1815	900	139.7	0.15 - 10
DN300	286	330	41	2500	1250	149.9	0.15 - 10
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
DN900	864	1016	386	10900	8200	196.2	0.15 - 4.5
DN1050	1016	1168	500	12700	10200	211.5	0.15 - 4
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DN1500	1473	1625	977	22000	18000	257.2	0.15 - 3.5
DN1650	1626	1778	1204	24000	20500	272.4	0.15 - 3
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DN2000 and up	1931	3505		Available -	Call Factory at 1-800-	220-2279	

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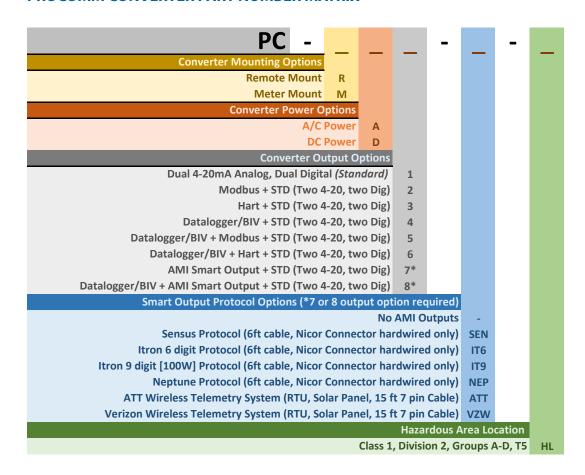


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³ Flow temperature range -10° to 60° C (14° to 140° F) up to 17 bar, max pressure is 17 bar.



PROCOMM CONVERTER PART NUMBER MATRIX







PROCOMM GO CONVERTER PART NUMBER MATRIX

PG -				_	-				
	_	_	_						
Converter Mounting Options									
Meter Mount Converter (Standard) Remote Mount R									
Remote Mount R Converter Power Options									
Battery Power (Standard) B									
Solar Power, Battery Backup S									
A/C Power, Battery Backup E									
DC Power, Battery Backup F									
Converter Output Options									
No Outputs (Standard) -									
No Outputs, DC Cable Only 0									
Two Digital Out 1									
4-20mA Analog only 2									
4-20mA Analog + Two Dig Out 3									
AMI Smart Output Only 4									
AMI Smart Output + Two Dig Out 5									
AMI Smart Output + 4-20mA Analog 6									
AMI Smart Output + 4-20mA Analog + Two Dig Out 7									
DC Power/ Analog Out Cable Options									
No DC Power or Outputs (Standard)	-								
No Cable - Output Configured (Quick Conn)	0								
6 ft (Open Leads - Strain Relief)	1								
25 ft (Open Leads)									
50 ft (Open Leads)									
Pulse Cable Length C									
No Outputs (Sta		-							
No Cable - Output Configured (Strain Relief or Quick		0							
6 ft (Open		1							
25 ft (Open		2							
50 ft (Open		3							
25 ft (7-Pin Male connector for Tele	* * * * * * * * * * * * * * * * * * * *	4							
50 ft (7-Pin Male connector for Tele Output Cable Teri	-	5 ntions							
Strain Reli			1						
Quick Connect (25 & 50 ft Cabl			2						
Smart Output Protocol Options (*4				ed)					
Simula Sulputa ()	uts -								
Sensus Protocol (6ft cable, Nicor	Sensus Protocol (6ft cable, Nicor Connector hardwired only)								
Itron 6 digit Protocol (6ft cable, Nicor									
Itron 9 digit [100W] Protocol (6ft cable, Nicor									
Neptune Protocol (6ft cable, Nicor	Connec	ctor hard	wired or						
ATT Wireless Telemetry System (RTU, So									
Verizon Wireless Telemetry System (RTU, So	olar Pan	el, 15 ft	7 pin Cab	ole) VZW					
		Н	lazardou	s Area Loca	tion				
	Groups A-E), T5	HL						



PROCOMM CONVERTER SPECIFICATIONS

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AC 1

DC

100-240 VAC / 45-66 Hz (10 W)
Note: AC or DC must be specified at time of ordering.

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.

- Volumetric Pulse
- Flow Rate (Frequency)
- Hardware Alarm
- High/Low Flow Alarms
- Empty Pipe
- Directional Indication
- Range Indication
- Maximum switching voltage: 40 VDC
- Maximum switching current: 100mA
- Maximum switching frequency: 1250 Hz
- Insulation from other secondary circuits: 500V

Optional Outputs

- ModbusHART
- Smart Output[™] (Sensus, Itron 6, Itron 9)
- Datalogger
- Built-in verification

Galvanic Isolation

All inputs / outputs are galvanically isolated from power supply up to 500 V

Engineering Units

- · Cubic Meter
- Cubic Centimeter
- Milliliter
- Liter
- Cubic Decimeter
- Decaliter
- Hectoliter
- Cubic Inches

- US Gallons
- Imperial Gallons
- Cubic Feet
- Kilo Cubic Feet
- Standard Barrel
- Oil Barrel
- US Kilogallon
- Ten Thousands of Gallons
- · Imperial Kilogallon
- · Acre Feet
- Megagallon
- · Imperial Megagallon
- Hundred Cubic Feet
- Megaliters

Conductivity

Minimum conductivity of 5µS/cm

Electrical Connections

Connection options

- Compression gland seals for 0.24" to 0.47" diameter round cable
- Conduit option: 1/2" NPT threaded connections

IP Rating

IP67 Die cast aluminum converter (only when connected using compression gland seals)



PROCOMM CONVERTER SPECIFICATIONS (CONT.)

Certifications and Approvals

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
- CF
- Certified by MET to UL 61010-1 and MET C22.2 No. 61010-1-04
 - Class I, Division 2, Groups A-D, T5
 - Class I, Zone 2 IIC T5



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.

Temperature Range

Operating and storage

-4° to 140° F (-20° to 60° C)

Converter Dimensions

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)

Keypad and Display

Can be used to access and change set-up parameters using six membrane keys and an LCD display



PROCOMM GO CONVERTER SPECIFICATIONS

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Electronic Housing

Diecast aluminum, powder coated enclosure w/ tamper resistant seal, 6½" x 6½" x 43/8" tall

Converter **Dimensions**

See page 21 for meter mount and remote mount converter dimensions.

Standard: three 3.6V lithium-thionyl chloride (Li-SOCI2) D size **Battery:**

batteries with two AA backup batteries

AC Power: 100-240VAC/45-66Hz (4W)

DC Power: Linear power supply 10-35VDC (4W)

Electrical Connections

Power

Optional shielded cable for 10-32VDC/4-20 mA output

· Optional shielded cable for pulse out

Performance and Operational Specifications

Battery Life Five-year expected battery life, five-year battery warranty

Location Indoor or outdoor use

Operating: 2000 meters Altitude

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

Outputs

IP67 Die cast aluminum converter 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 Measurement

	 2-Line LCD display (no backlight) 	 Flow rate and velocity (to 5 digits of precision)
Display	Non-volatile memory	 Two alarms: low battery and empty pipe
Display	A	/ · · · · · · · · · · · · · · · · · · ·

Anti-reverse totalizer (standard)

(optional)

 Total (to 9 digits of precision) Opening lid activates display

Digits 5 Rate, 9 Total

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) Units

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





Totalizer Units

GAL	Gallons	B42	Barrel (42G)	MH1	Miners	Inch	Hour
CUF	Cubic Feet	B46	Barrel (46G)	(11.22	?G)		
AFT	Acre Feet	B55	Barrel (55G)	MD1	Miners In	ch Day (1	1.22G)
CUM	Cubic Meters	IMG	Imperial Gallon	MH9	Miners In	ch Hour	(9G)
LIT	Liters	AIN	Acre Inch	MD9	Miners In	ch Day (9G)
MML	Megaliter	TON	Ton (Short)	KGL	Kilo Gallo	ns	
MTT	Metric Ton (KL)	MM1	Miners Inch Minute (11.22G)	MGL	Mega Gal	llons	
B31	Barrel (31G)	MM9	Miners Inch Minute (9G)	IN3	Cubic Inc	h	

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

Standard Model

HL Model

- ISO 9001:2015 certified quality management system
- Certified by MET to UL 61010-1
- Certified to NSF / ANSI Standards*
- 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-D, T5
 - Class I, Zone 2, IIC T5
- Certified to NSF / ANSI Standards*





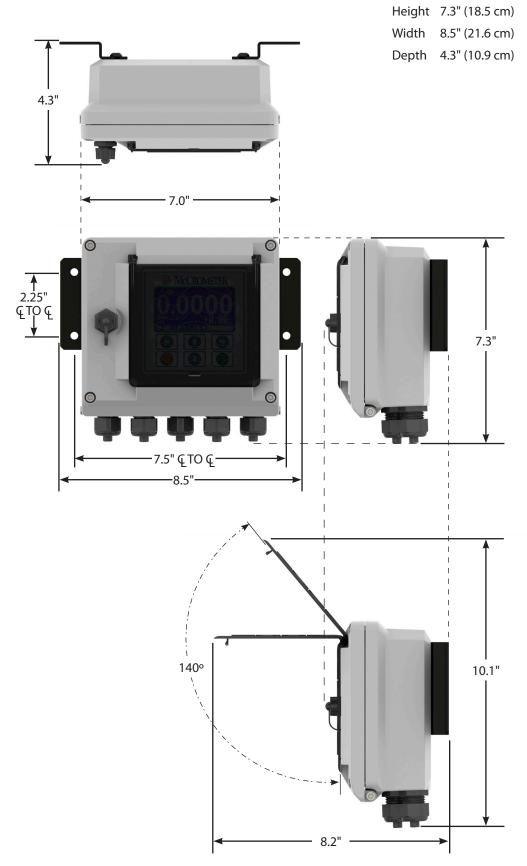


* Certified by IAPMO R&T to NSF/ANSI 61 for material safety and NSF/ANSI 372 for low lead content.



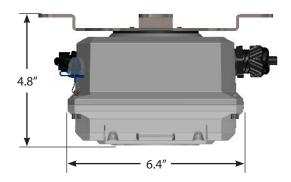


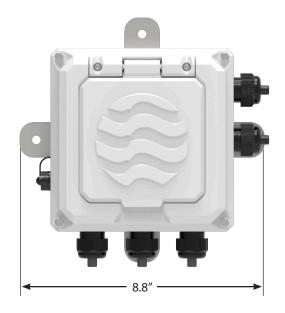
PROCOMM CONVERTER DIMENSIONS





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