

# SPI Mag Flow Meter Specification Sheet

Applies to the following models:

SPI Mag 3000

SPI Mag 5000

## Applications

SPI Mag Series flow meters are available in 1" and 2" sizes can be used for waste water and clean water.

### Wastewater

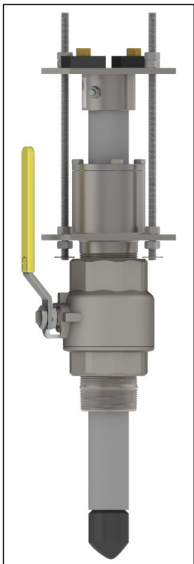
- Effluent
- Waste Activated Sludge (WAS)
- Return Activated Sludge (RAS)
- Reclaim / Recycle

### Clean Water

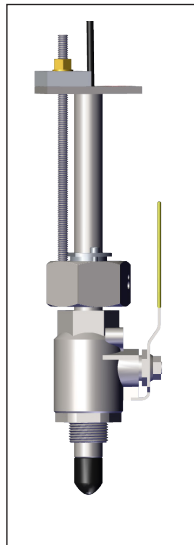
- Raw Water Intake
- Clear Wells

## SPI Mag® Sensor

2" Model



1" Model



ProComm Go Transmitter



ProComm Max Transmitter



## Benefits

- Easy to relocate to various line sizes
- Ease of hot-tap installation
- Installs without service interruption
- Insertion design for total accessibility
- Price is independent of line size
- No moving parts
- Does not require recalibration in the field

## No Service Interruption for Installation

The SPI Mag™ (Single Point Insertion) Electromagnetic Flow Meter is a hot tappable single point insertion flow meter for measuring forward flow. The sensor is available for one-inch or two-inch taps, depending upon line size and application.

The SPI Mag's hot tap installation allows for uninterrupted service as it installs without system shut-down, de-watering lines, cutting pipe or welding flanges. Installation costs are reduced by eliminating the need for heavy equipment or extensive manpower.

## Easy Installation

The SPI Mag is easily installed without interruption of the flow process. Sensor insertion hardware is utilized to insert the sensor through a ball valve or corporation stop in the flow conduit. Measurements are taken at the nearest pipe wall with negligible pressure drop in the pipe. The SPI can be easily re-located to various line sizes.

## Cost-Effective Measurement

The SPI Mag is a cost effective flow meter solution with a purchase price that is independent of line size making the cost to meter a sixty-inch line the same as a two-inch.

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. It is particularly cost-effective for retrofit applications replacing flow meters or in sites never metered before.

### Wide range of sizes

The SPI Mag flow meter is available for line sizes from 2 to 96 inches. The flow sensor comes pre-calibrated from McCrometer's NIST traceable Calibration Lab and requires no recalibration in the field. With no moving parts and a single-piece design, the SPI Mag's sensor contains nothing to wear or break, and it is generally immune to clogging by sand, grit or other debris. The SPI Mag allows profiling of the pipe inside diameter, further enhancing its measurement accuracy by allowing precise determination of mean velocities.

### ProComm Go Transmitter

The SPI Mag 3000 flow meter is accompanied by the ProComm GO transmitter and can be battery powered, ideal for remote installations and locations with unreliable power sources.

- Output options include pulse, 4-20mA, Modbus, and telemetry
- Battery powered with optional solar, AC or DC power with battery backup
- Offering  $\pm 2\%$  accuracy
- DIY battery replacement and in-field programming available via USB cable and laptop
- UL, CSA certifications

### ProComm Max Transmitter

The SPI Mag Plus 5000 is offered with the ProComm Max transmitter, offering greater accuracy and more sophisticated output options for users needing superior system integration and data collection.

- Output options include Digital Pulse, 4-20mA, Hart, Modbus, and Ethernet IP
- Datalogger and optional AMI/AMR
- Optional Class 1 Div 2
- AC/DC powered
- $\pm 2\%$  standard accuracy
- Bi-directional flow standard
- Rated to 140F for high temperatures
- CE, UL, CSA certification

### Installation

- **Hot Tap Installation** - No service interruption.

## FLOW METER SPECIFICATIONS

### Measurement

- Volumetric flow in filled flow conduits 2" (50mm) to 96" (2,440 mm) diameter utilizing insertable velocity sensor. 1" meter = 2" to 30" pipe I.D.; 2" meter = 6" to 96" pipe I.D.
- Flow indication in English Standard or Metric units

### Flow Measurement

<b>Method</b>	Electromagnetic
<b>Accuracy</b>	+/- 2% of measured value ±0.03 ft/s (±0.009 m/s)
<b>Velocity range</b>	+0.3 to +32 ft/s (+0.09 to +10 m/s)
<b>Direction measurement</b>	Has reverse flow indication

### Materials

<b>Sensor</b>	Polyurethane exposed to flow
<b>2" sensor mounting</b>	PVC and Stainless Steel exposed to flow. (Stainless Steel Insertion Tube Optional)
<b>Compression seal</b>	Buna "N" O-Ring seal exposed to flow

### Environmental Ranges

<b>Pressure/temperature limits</b>	<ul style="list-style-type: none"> <li>• PVC Insertion Tube: Up to 105°F (41°C) at 150 PSI</li> <li>• Stainless Steel Insertion Tube: Up to 160°F (71°C) at 250 PSI (McCrometer recommends the use of Stainless Steel)</li> </ul> <p>Note regarding storage: During freezing conditions and when meter is not in use, sensor must be removed from pipe and stored in dry conditions.</p> <p><b>NOTE: Damage to the sensor caused by allowing the sensor freeze in the pipe is not covered by the warranty.</b></p>
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### Electrical Connections

Compression gland seals for 0.125" to 0.375" dia. round cable

### Sensor Cable Lengths

<b>Standard</b>	25' McCrometer supplied submersible cable with each remote mount unit.
<b>Optional</b>	Up to 200 feet, or 25 feet max for battery powered.

### IP Rating

IP68 submersible sensor

### Insertion Tube

To determine insertion tube length for typical near wall installations, divide the pipe I.D. by 8 and add 18".

For full profiles, add 18" to the pipe I.D.

Tube assemblies include rods and mounting hardware

<b>1" tube</b>	<ul style="list-style-type: none"> <li>• Stainless steel tube, 12" length. Will profile 4" pipe I.D.</li> <li>• Stainless steel tube, 24" length. Will profile 16" pipe I.D.</li> <li>• Stainless steel tube, 36" length. Will profile 28" pipe I.D.</li> </ul>
<b>2" tube</b>	<ul style="list-style-type: none"> <li>• PVC tube, 18" length. Will profile a 10" pipe I.D.</li> <li>• PVC tube, 24" length. Will profile a 16" pipe I.D.</li> <li>• PVC tube, 30" length. Will profile a 22" pipe I.D.</li> <li>• Opt.: stainless steel tube. Specify length - 240" maximum</li> </ul>

## Flow Meter Specifications (cont.)

### System Options

- Stainless Steel ID Tag
- Sensor Insertion Tool
- Additional Sensor Cable up to 200' (for longer lengths consult factory)
- Valves

### Ordering Requirements

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

- Model and tap size
- Insertion tube length
- Pressure
- Minimum flow
- Maximum flow
- Typical flow
- Fluid
- Pipe I.D.
- Cable length
- Temperature
- Any other chemicals in use
- Indicator and totalizer units

### SPI Mag 3000 Part Number Matrix

<b>SP328</b>		-																	
Small or Large Body Sensor																			
Small 1" Body Sensor		1																	
<b>Meter Type</b>																			
Meter (Sensor, Tube, & Converter)		L																	
Sensor Only		S																	
<b>Tube Length Options</b>																			
12" Sensor Length		012																	
18" Sensor Length		018																	
24" Sensor Length		024																	
30" Sensor Length		030																	
36" Sensor Length		036																	
Non Standard Tube Length		XXX																	
<b>Tube Material Options</b>																			
S316 Stainless Steel		S																	
PVC Plastic		P																	
<b>Ball Valve Options</b>																			
Stainless Steel Valve (1" NPT 281, 2" NPT 282 Sensor)		N																	
No Valve, hardware only (1" NPT 281, 2" NPT 282 Sensor)		X																	
<b>Converter Power Options</b>																			
Battery Power (Standard)		B																	
Solar Power, Battery Backup		S																	
A/C Power, Battery Backup		E																	
DC Power, Battery Backup		F																	
<b>Converter Output Options</b>																			
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																	
<b>DC Power/ Analog Out Cable Options</b>																			
No DC Power or Outputs (Standard)																			
No Cable - Output Configured (Quick Conn)		0																	
6 ft (Open Leads)		1																	
25 ft (Open Leads)		2																	
50 ft (Open Leads)		3																	

**SPI Mag 3000 Part Number Matrix (cont.)**

<b>SP328</b>			-						-		-	
<b>Pulse Cable Length Options</b>												
No Outputs ( <i>Standard</i> )												
No Cable - Output Configured (Quick Conn)												
										0		
										1		
										2		
										3		
<b>Output Cable Terminal Options</b>												
No Output Cables												
										1		
										2		
<b>Smart Output Protocol / SmartTrax Options</b>												
No AMI Outputs/SmartTrax Options												
										SEN		
										IT6		
										IT9		
										NEP		
										S06		
										S25		
										S50		
<b>No Batteries, Battery Tray Options</b>												
Includes Batteries ( <i>Standard</i> )												
										NB,		
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### SPI Mag 5000 Part Number Matrix

<b>SP528</b>		-																	
<b>Small or Large Body Sensor</b>																			
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Large 2" Body Sensor		2																	
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<b>Remote Cable Options</b>																			
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																	
<b>Transmitter Power Options</b>																			
A/C Power		A																	
DC Power		D																	

<b>SP528</b>			-								-			-	
<b>Transmitter Analog/Hart Output Options</b>															
Single 4-20mA Analog, Dual Digital (Standard)															
Dual 4-20mA Analog, Dual Digital															
1 Hart 4-20mA Analog, 1 Standard 4-20mA Analog, Dual Digital															
<b>Transmitter Digital Output Options</b>															
No Digital Protocol Outputs															
Modbus Protocol															
Ethernet IP Protocol *Future Option															
<b>Output Protocol Types</b>															
No Digital outputs															
RTU (RS485) Output (Modbus)															
TCP/IP Output (Modbus, Ethernet IP)															
<b>Smart Output Protocol / SmartTrax Options</b>															
No AMI Outputs/ SmartTrax															
Sensus Protocol (6ft cable, Nicor Connector hardwired only)															
Itron 6 digit Protocol (6ft cable, Nicor Connector hardwired only)															
Itron 9 digit [100W] Protocol (6ft cable, Nicor Connector hardwired only)															
Neptune Protocol (6ft cable, Nicor Connector hardwired only)															
6 ft SmartTrax Standalone Unit ExactRead Cable (Strain Relief Only)															
25 ft SmartTrax Standalone Unit ExactRead Cable (Strain Relief Only)															
50 ft SmartTrax Standalone Unit ExactRead Cable (Strain Relief Only)															

## ProComm Go Transmitter Specifications

### Physical Specifications

<b>Electronic Housing</b>	Diecast aluminum, powder coated enclosure w/ tamper resistant seal, 6½" x 6½" x 43/8" tall
<b>Transmitter Dimensions</b>	See "Dimensions" section for meter mount and remote mount transmitter dimensions.
<b>Power</b>	<b>Battery:</b> Standard: three 3.6V lithium-thionyl chloride (Li-SOCI2) 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 transmitter
<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 transmitter)

### 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>	<table border="0" style="width: 100%;"> <tr> <td>GPM</td><td>Gallons per minute</td> <td>IGM</td><td>Imperial gal per minute</td> <td>CFM</td><td>Cubic feet per minute</td> </tr> <tr> <td>MGD</td><td>Mega gal per day</td> <td>MI9</td><td>Miners inch (9G)</td> <td>B5M</td><td>Barrels per minute (55G)</td> </tr> <tr> <td>CFS</td><td>Cubic feet per second</td> <td>MI1</td><td>Miners inch (11.22G)</td> <td>B5H</td><td>Barrels per hour (55G)</td> </tr> <tr> <td>MLD</td><td>Megaliters per day</td> <td>APD</td><td>Acre feet per day</td> <td>B5D</td><td>Barrels per day (55G)</td> </tr> <tr> <td>LPS</td><td>Liters per second</td> <td>KLH</td><td>Kiloliters per hour</td> <td>B4M</td><td>Barrels per minute (42G)</td> </tr> <tr> <td>CMH</td><td>Cubic meters per hour</td> <td>LPH</td><td>Liters per hour</td> <td>B4H</td><td>Barrels per hour (42G)</td> </tr> <tr> <td>LPM</td><td>Liters per minute</td> <td>CMM</td><td>Cubic meters per minute</td> <td>B4D</td><td>Barrels per day (42G)</td> </tr> <tr> <td>GPH</td><td>Gallons per hour</td> <td>CFM</td><td>Cubic feet per minute</td> <td></td><td></td> </tr> </table>		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		
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## ProComm Go Transmitter Specifications (cont.)




### Display and Measurement (cont.)

<b>Totalizer Units</b>	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)		
	<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>Overtoltage protection Category III</li> </ul>

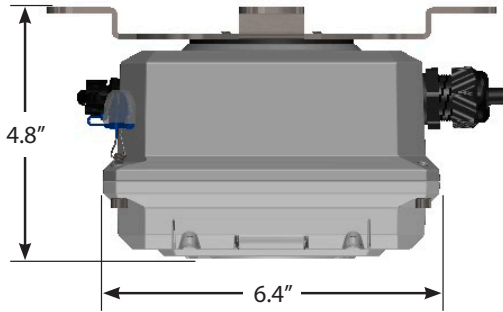
### Certifications

<b>Standard Model</b>	<ul style="list-style-type: none"> <li>ISO 9001:2015 certified quality management system</li> <li>CE</li> <li>Certified by MET to UL 61010-1</li> </ul>	  
<b>HL Model</b>	<ul style="list-style-type: none"> <li>ISO 9001:2015 certified quality management system</li> <li>CE</li> <li>Certified by MET to UL 61010-1 and MET C22.2 No. 61010-1-04                             <ul style="list-style-type: none"> <li>Class I, Division 2, Groups A B C D, T4</li> <li>Class I, Zone 2, IIC T4</li> </ul> </li> </ul> <p><i>Note: ProComm GO with SmartTrax On Board is not available for hazardous locations.</i></p>	

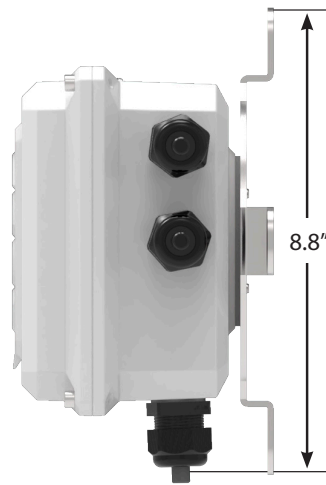
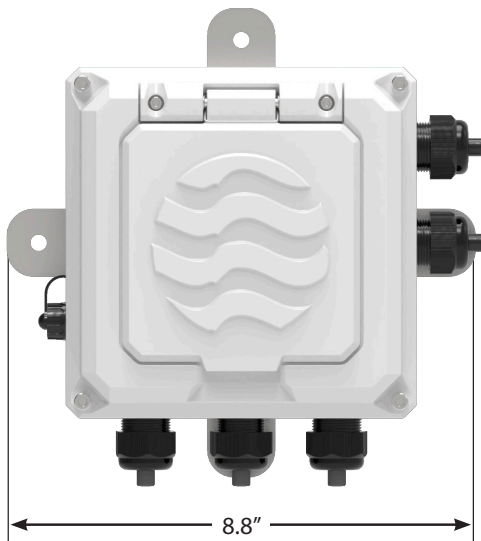
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Physical Specifications																																																	
<b>Electronic Housing</b>	Diecast aluminum, powder coated enclosure w/ tamper resistant seal																																																
<b>Transmitter Dimensions</b>	Remote 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 / 47-66 Hz (10 W) DC Power: 10-35 VDC (10 W) Note: AC or DC must be specified at time of ordering.																																																
<b>Connection Options</b>	Conduit option: 1/2" NPT threaded connections																																																
<b>Galvanic Isolation</b>	All outputs are galvanically isolated from power supply up to 500V																																																
<b>Conductivity</b>	Minimum conductivity of 5µS/cm																																																
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<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 transmitter																																																
<b>Standard Outputs</b>	Single 4-20mA (standard). Galvanically isolated and fully programmable for zero and full scale. A second 4-20mA is available.  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>• Range Indication</li> <li>• Maximum switching voltage: 35 VDC</li> <li>• Maximum switching current: 100mA</li> <li>• Insulation from other secondary circuits: 500V</li> </ul> <ul style="list-style-type: none"> <li>• Modbus</li> <li>• HART</li> <li>• Ethernet IP</li> <li>• Datalogger</li> <li>• Smart Output™ (Sensus, Itron 6, Itron 9)</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																																																
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B31	Barrel (31G)	MM9	Miners Inch Minute (9G)																																														
Other Specifications																																																	
<ul style="list-style-type: none"> <li>• ISO 9001:2015 certified quality management system</li> <li>• CE</li> </ul>																																																	
																																																	

**ProComm Go Transmitter Dimensions**



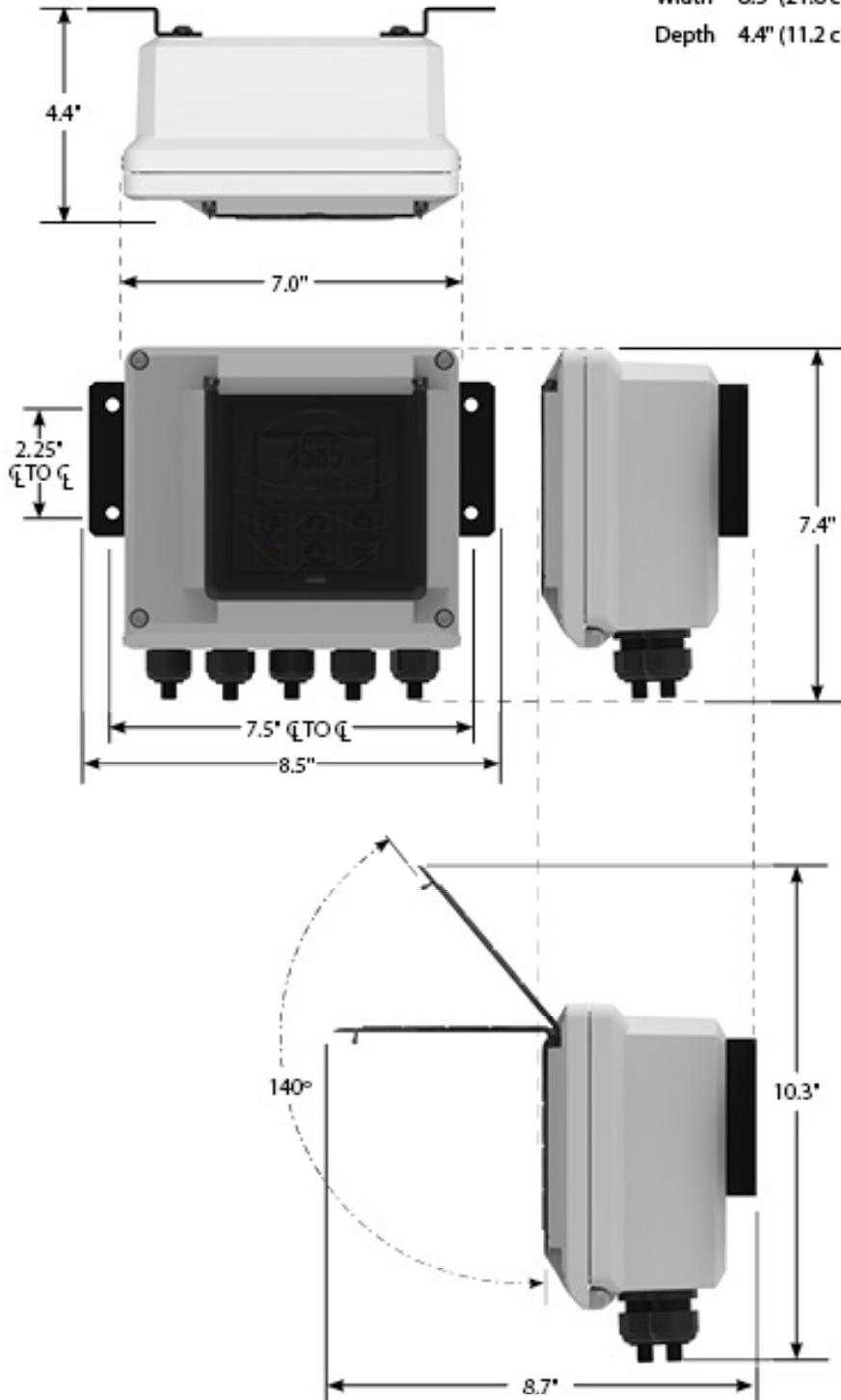
*Remote mount converter*



## ProComm Max Transmitter Dimensions

### Remote Mount Transmitter Dimensions

Height 7.4" (18.9 cm)  
Width 8.5" (21.6 cm)  
Depth 4.4" (11.2 cm)



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