

# CLARK

## WMX101 Flanged Magnetic Flow Transmitter

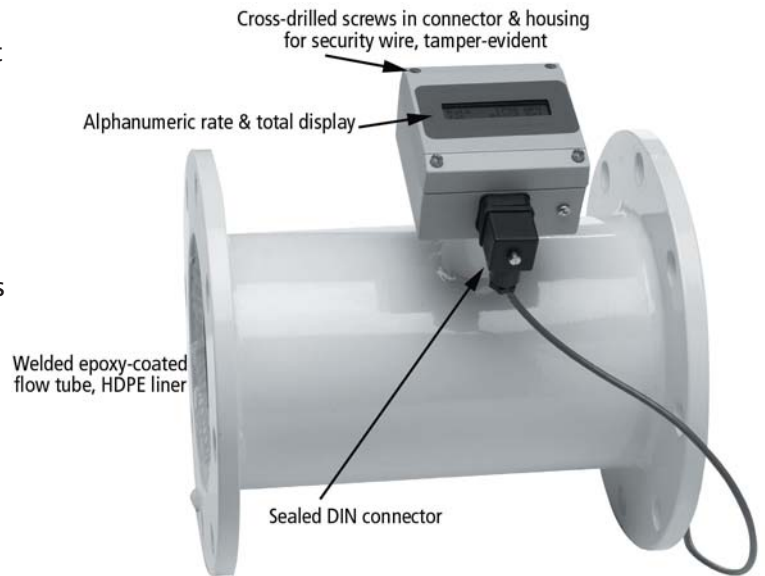
4" to 10" Pipe, F.S. flow ranges 500 to 1800 GPM

### DESCRIPTION

The WMX101 is a flanged electromagnetic flow meter for use in utility or industrial water and wastewater applications. An ingenious economical design makes it an ideal meter for applications where propeller meters have been the norm, but with no moving parts to wear the magnetic flow meter minimizes maintenance costs and dramatically decreases total cost of ownership.

For simplicity, no field programming is required. Large, domed measurement and grounding electrodes discourage fouling. Rate and total indication are standard. There is a solid-state pulse output for connection to standard telemetry systems or to an external 4-20 mA converter.

Power required for the meter is within easy range of a solar panel, which can be ordered as an accessory or obtained locally. A shielded power/pulse output cable with DIN connection is included with the meter. Optional features include immersible electronics for occasional vault flooding. The AO55 pulse to analog converter can be added where a 4-20 mA signal is required.



### SPECIFICATIONS

Pipe Sizes: 4", 6", 8", 10"

Flanges: AWWA 150 lb. drilling

Pressure: 150 psi working pressure

Temperature: 10°F to 130°F

Environmental: NEMA 4X standard, short term immersible option available

Accuracy (% of reading): ±1%, 10 to 100%; ±2%, 10% to cutoff

Materials:

Body: Welded steel, epoxy powder coated

Liner: HDPE

Electronics Housing: Diecast Aluminum

Electrodes: T316 stainless steel

Display:

6 Digit Rate of Flow Display Units	8 Digit Totalizer Display Units
Gallons/Minute	Gallons
Million Gallons/Minute	Gallons X 1000
Liters/Second	Cubic Meter
Cubic Feet Per minute	Cubic Feet

Power: 12-24 VDC, 30 mA max.

Output Signal: Current-sinking pulse, opto-isolated, 24 VDC, 10 mA max

Empty Pipe Detection: Hardware/software, conductivity-based

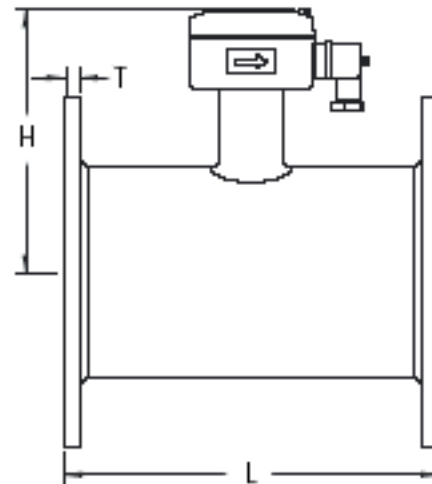
Flow Range:

Flow Range (GPM)	Pipe Size			
	4"	6"	8"	10"
Min.	12	32	60	100
Max.	500	1200	1500	1800

### FEATURES

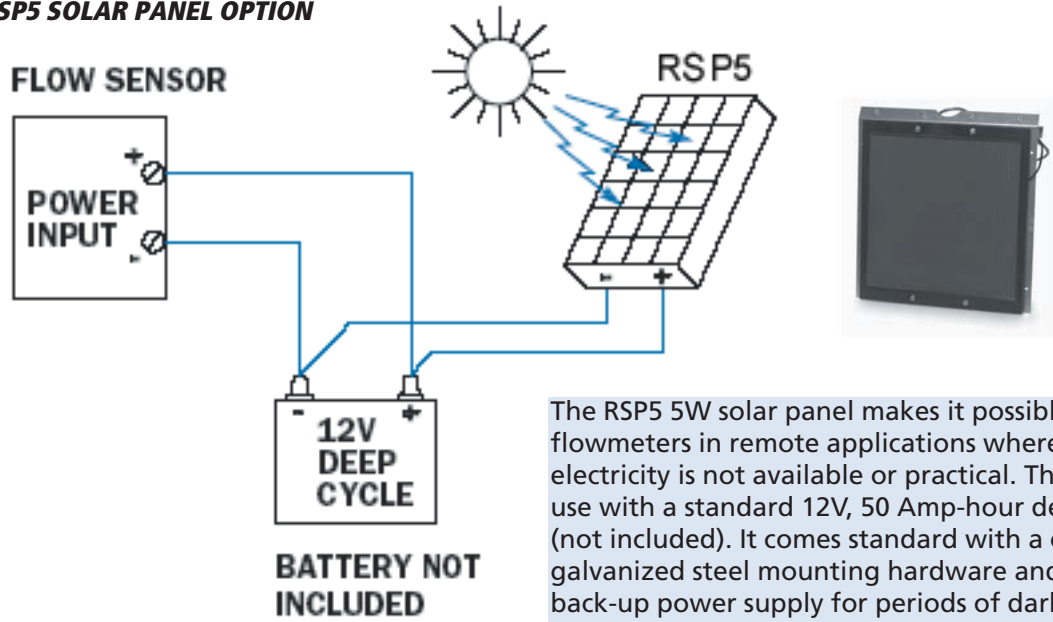
- Economical as mechanical meter
- No moving parts
- Solar-compatible power level
- Telemetry-ready
- Internal grounding electrodes

### DIMENSIONS (MM)



Meter Size WMX101	L	H	T	Weight (Kg)
-400	250	188	15.88	10.5
-600	300	216	17.48	14.5
-800	350	241	17.48	21.5
-1000	450	264	17.48	32

**RSP5 SOLAR PANEL OPTION**



The RSP5 5W solar panel makes it possible to use WMX101 flowmeters in remote applications where a reliable source of electricity is not available or practical. The RSP5 is intended for use with a standard 12V, 50 Amp-hour deep cycle battery (not included). It comes standard with a charge controller and galvanized steel mounting hardware and provides a 90-day back-up power supply for periods of darkness.

Typical current at design operating point: 330 mA  
 Typical voltage at design operating point: 15 V  
 Weight: 3.63 Kg (8 lb)  
 Overall height: 371 mm (14.625")  
 Overall Width: 346 mm (13.625")

**ORDERING INFORMATION**

**A-B-C-D-E**

**EXAMPLE: WMX101-8-00-GPM-GA**

A Model	B Size	C Options	D Rate of Flow Units	E Totalizing Units
WMX101	400= 4" 600= 6" 800= 8" 1000= 10"	00= None 45= Immersible 39= Grooved Ends 38= Bi-Directional	GPM= Gallons/Minute MGD= Million Gallons.Day LPS= Liters/Second CFM= Cubic Feet/Minute	GA= Gallons GT= Gallons X 1000 CF= Cubic Feet CM= Cubic Meter

**Accessories**

- A055W**= Blind 4-20 mA converter, wall mount
- PC42**= Dual power supply, 110-115 VAC, 24 VDC
- PC3**= Power converter, plug-in, 110-115 VAC, 24 VDC
- RSP5W**= Solar panel kit, 5 Watt
- 31051**= Extra cable, specify length
- 31090**= Grounding ring 4"
- 31091**= Grounding ring 6"
- 31092**= Grounding ring 8"
- 31093**= Grounding ring 10"