



Remote Flowmeter-Pulsers

Information Sheet Manual No: 54872

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REMOTE FLOWMETER-PULSER

Variable flow rates require a flow proportional dosing system. LMI's Remote Flowmeter-Pulser provides a precise flow proportional dosing system that is simple to install and easy to maintain.

Accessibility

LMI's Remote Flowmeter-Pulsers allow you to install the Flowmeter in your pipeline and to wall mount the Programmable Divider up to 100 ft (30 m) away, where it provides easy user access.

Simple System Requirements

For automatic flow proportioning, all that is required is the LMI Remote Flowmeter-Pulser and an LMI dosing pump sized to fit the additive flow rate. No timers, relays, or control valves are required.

Rugged Construction

The Flowmeter body is constructed of a lead-free brass alloy. A gear train drives the register totalizer dials. Dry top multi-jet design tolerates low quality water.

Versatile Features

- Line sizes from 3/4" to 2"
- Flow rates from 0.22 to 132 GPM
- Line pressures to 150psi (10.3 Bar)
- Water temperatures from 32°F to 105°F (0°C to 40°C)
- Lead-Free Flowmeter
 Meets AWWA Class -708 Multi-Jet Meter
 accuracy specification.

REMOTE FLOWMETER-PULSER

Simple Operation

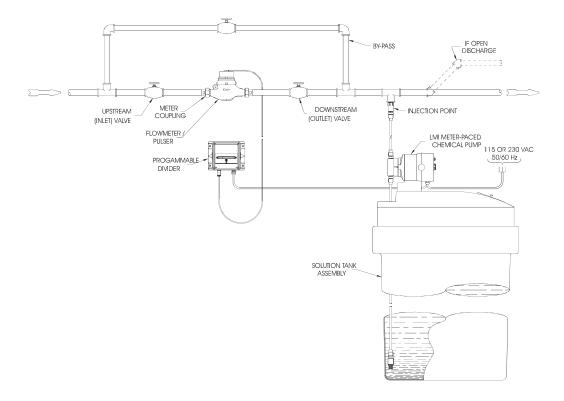
As liquid flows through the Flowmeter, a magnetic pickup external to the flow stream senses each rotation of the register dials. These pulses are transmitted to the Programmable Divider. The divider accumulates the number of pulses and triggers the LMI dosing pump to stroke once for the set number of pulses.

The Programmable Divider permits you to set the ratio of pulses to pump strokes at any ratio between 1:1 and 9999:1. Combined with the 10 to 1 adjustability of the LMI dosing pump's stroke length and alterations to the solution concentration, the additive injection ratios can exceed five hundred million to one. Consult the RFP Instruction Manual for further details on setting the divider.

Simple, Rugged Design

The RFP Flowmeter uses the internationally-accepted multi-jet principle. A gear train drives the register totalizer dials. This isolation eliminates any possibility of contamination. The dry top register is dustproof as well as water proof and is easy to read.

Typical Installation



REMOTE FLOWMETER-PULSER

I. Select Your Flowmeter

- Determine the required pipe size or mounting flange.
- Determine the maximum and minimum flowrate of the flowmeter.
- Select your flowmeter model from the chart below:

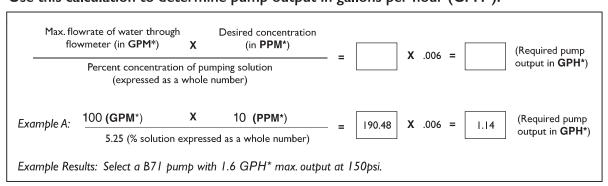
Flowmeter Only P/N
59235
59236
59237
59238

	Flowmeter	Pipe	Flow-GPM*		Flow-LPM*		Primary Pulses	Primary Pulse	
	Model with PD-4	Size	MIN	MAX	MIN	MAX	per U.S. Gallon	per Liter	
r	RFP-075	3/4"	0.22	22	.83	83	40	10.6	
	RFP-100	1"	0.44	52	1.7	196	4	1.1	
	RFP-150	I-I/2"	0.88	88	3.3	333	4	1.1	
	RFP-200	2"	1.98	132	7.5	499	4	1.1	

2. Select Your Metering Pump

or

- A metering pump with an external pulse input must be selected. LMI Series AA7, B7, or C7 type pump are most commonly used and these pumps are equipped with an external 4-pin input jack for use with RFP flowmeters. Roytronic® Series A7 and Roytronic® Excel AD8 type pump requires optional 4 Pin to 5 Pin adapter P/N 48488. Note: RFP flowmeters can also be used with AA9, B9, C9 and Roytronic Excel Series AD8, AD9 pumps. Please program in pulse multiply (factor I) or pulse divide (factor I).
- When using the RFP flowmeter, the speed control function is bypassed and taken over by the divider unit. The flow of the water through the flowmeter automatically controls the speed of the pump. On the Series AA7, the speed knob is fully turned counter-clockwise to put the pump in external mode. On Series B7 and C7 pumps, a switch is used to select the external mode. Roytronic® Series A7 uses a power/mode button and the Roytronic® Excel AD8 uses a mode button to change to external mode.
- Be sure the pump's pressure rating exceeds the system pressure by a minimum of 20%. For example, if system pressure equals 100psi (6.9 Bar), the pump rating should be 120psi (8.3 Bar) or greater.
- Use this calculation to determine pump output in gallons per hour (GPH*).

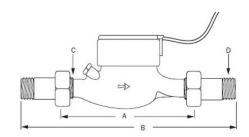


Flowmeter Specifications

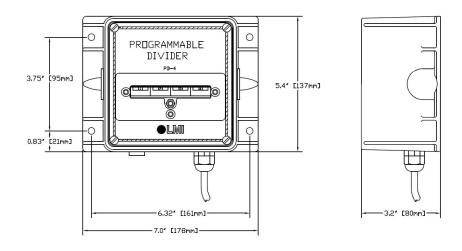
RFP-075, RFP-100, RFP-150, RFP-200

Flowmeter only P/Ns		59235	59236	59237	59238	
Model – RFP		RFP-075	RFP-100	RFP-150	RFP-200	
Meter Type		Multi-Jet Impeller, Magnetic Drive				
Body Material		Lead Free Brass Alloy				
Register Type		Straight Reading U.S. Gallons Dry Register				
Totalizer Digits		7				
Service Temp	°F (°C)	32 - 105 (0 - 40)				
MAX Op. Pressure	psi (Bar)	150 (10.3)				

Model No.		RFP-75	RFP-100	RFP-150	RFP-200
Nominal Size	inch	3/4	I	I-I/2	2
Nominai Size	mm	20	25	40	50
A (Bady)	inch	7.5	10.25	11.75	11.75
A (Body)	mm	190	260	298	298
D / / I:)	inch	12.63	15.63	17.63	17.63
B (w/couplings)	mm	32 I	397	448	448
C (IPS thread)	inch	I	1.25	2	2.5
D (NPT thread)	inch	.75	İ	1.5	2
Net Weight	lbs	8	10	16	18
Thet Weight	kg	3.6	4.5	7.3	8.2



REMOTE PROGRAMMABLE DIVIDER - ALL MODELS



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