

Digi-Pulse[™] Flow Monitor Series FM-300

- Corrosion resistant PVDF
- Senses pulsating metering pump flow
- Adjustable Flow Range

• Flow range: ml/stroke Max. LMI Pump Output

0.5 - 16.0 25 GPH (95 l/h)

- Usable as Adjustable Flow Switch for non-pulsating flow
- Economical

• For LMI pumps with 1/2" check balls and non-LiquiPro™ Heads

Pulsating flow of your pump can be monitored and transmitted using the LMI Digi-PulseTM Flow Monitor. Designed to electrically signal a low flow or no flow condition, you can be assured of your pumping performance; an advantage when working with pulsating or very low flows. A transmitter can be connected to a remote counting or recording device. The FM-301-9 and the FM-302-9 are wired to be plugged directly into the receptacles of Series C9 pump housings. The Digi-PulseTM Flow Monitor is adjustable to any desired pulsating flow rate within its range.

SPECIFICATIONS		
Flow Range	0.5 - 16.0 ml/stroke	25 GPH (95 l/h) Max LMI pump output
Max. Pulse (stroke) Rate	100 per minute	
Max. Pressure	150 psi (10 Bar)	
Transmitter	Reed Switch (No Flow = N.O. Switch Condition) Polarity Independent Minimum pulse width 15 msec	
Max. Load	100 mA AC or DC, 36V max	
Cable Length	FM-301,FM-302 : 10ft (3m) FM-301-9, FM-302-9 : 20 in (0.5 m)	
Body Material	PVDF	
Valve Fitting Material Seals & O-Rings	Carbon Fiber Reinforced PVDF (where supplied) Polyprel® (TFE copolymer)	

CONFIGURATIONS		
Connection		
Supplied w/ PVDF valve housing for 1/2" OD tubing (or 9x12 mm)		
Supplied w/ PVDF valve housing for 1/2" OD tubing (or 9x12 mm) for Series C9 pump		
Supplied w/ 1/2" NPT male PVDF valve housing		
Supplied w/ 1/2" NPT male PVDF valve housing for Series C9 pump		



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Instruction Sheet

Digi-Pulse Flow Monitor

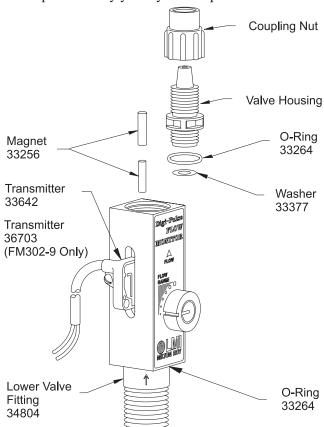
Installation



WARNING:

The valve fitting on the discharge portion of the Digi-Pulse™ Flow Monitor must be a flange type fitting to ensure a proper seal with the O-Ring. Using a winged type valve fitting will not create a seal and leakage of solution will occur.

- 1. With your pump turned off, screw the lower valve fitting of the Digi-Pulse™ Flow Monitor to the discharge side of the pump head.
- 2. Attach tubing to top of valve housing.
- 3. Connect the Digi-PulseTM cable to your counter, computer, or other recording device (polarity is not critical). If cable extension is desired, consult factory. Plug the FM-300-9 Series cable directly into the receptacle in the Series C9 pump housing.
- 4. Loosen the locknut of the flow-range knob of the flow monitor and set the knob to the largest dot. Start the pump and adjust it (calibrate, if necessary) for proper output to satisfy your system requirements.



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5. With the pump running, gradually turn the adjustment knob of the flow monitor counter-clockwise until the sensor just begins to trigger your electronic device.

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- This will be the most sensitive setting of the Digi-PulseTM Flow Monitor. Every stroke of the pump will output enough volume of solution to cause the Digi-PulseTM flow monitor to register a pulse. If the flow drops below the initial pump setting, the Digi-PulseTM will no longer register strokes to your electronics, indicating some type of pump failure or low-level condition.
- 6. Tighten the adjustment locknut without altering the adjustment position.

Note:

After the initial pump and Digi-PulseTM setup is complete, any adjustment of the stroke length of the pump (output per stroke) will require a readjustment of the Digi-PulseTM flow monitor (repeat steps 4 - 6 above).

To change the flow range setting:

A set screw holds the transmitter body in a notch on the side of the flow monitor. Remove the screw and washer and slide or turn the transmitter 180° to an alternate position and tighten the screw and washer in the hole to secure the transmitter. The Digi-PulseTM Flow Monitor comes factory set at the "LOW" setting which should accommodate most applications. However, the "INTERMEDIATE" or "HIGH" settings may be appropriate for a particular application if the sensor does not trigger in the "LOW" setting.

