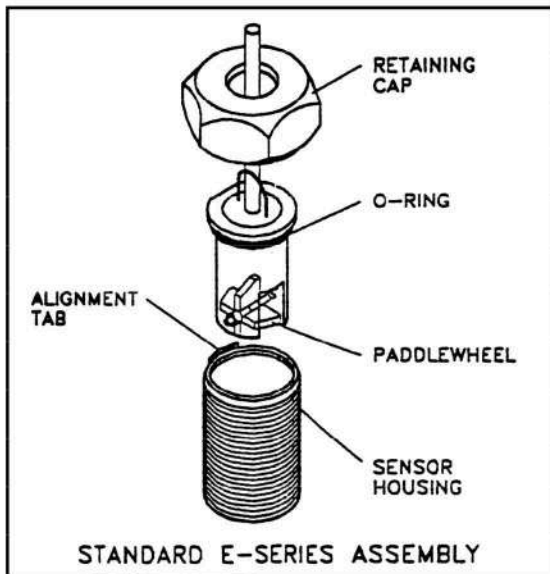


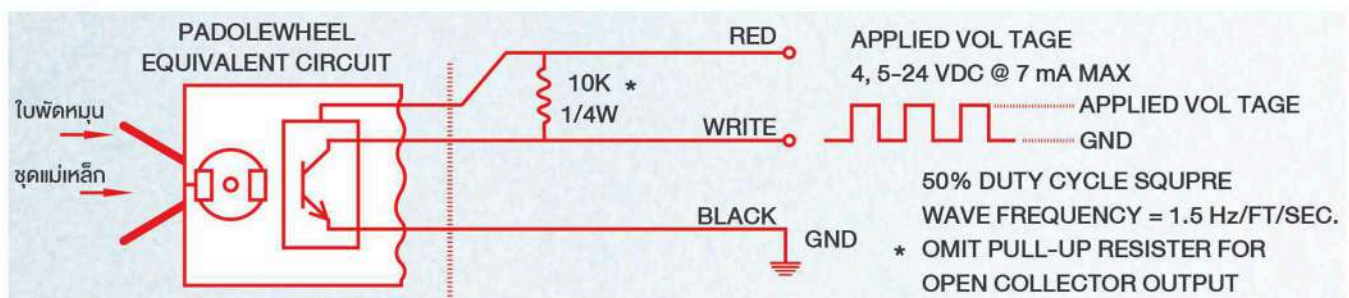
# SENSOR DATA SHEET

# E-Series Liquid Flow Sensor

- \* Low cost
- \* High reliability
- \* Wide range  
2 – 10,000 GPM
- \* Patented six blade, non-magnetic design
- \* Available in DELRIN or KYNAR
- \* One paddlewheel fits ALL SIZES
- \* Transmits up to 1000 feet without the need for additional amplifiers
- \* Direct logic pulse output
- \* Flow velocities range of 1.5 to 27 fps
- \* Operating pressure to 200 PSIG
- \* Liquid temperatures to 250° F
- \* High sensitivity
- \* Pipe sizes from  
3/4" - 14"



One major problem with most paddlewheel type flow sensors having magnets in the paddles is that metal particles tend to stick to the magnets. The collecting material then causes a change in the flow characteristics in the paddle. To eliminate this problem, EPG Companies flow sensor uses a special axle and dual magnet drum design that takes the magnets out of the paddles. This dual magnetic drum design with rapidly changing polarity, along with fluid velocity causes the metallic particles to drop off into the flow stream and are swept away.



## INSTALLATION HINTS

1. Pipe must be full for accurate reading.
2. Minimum velocity is 1.5 ft./second. Recommended maximum velocity is 27 ft./second.
3. The flow must be uniform at the point where the flow sensor is installed or an incorrect reading will result. To accommodate a uniform flow allow at least ten (10) pipe diameters upstream and five (5) pipe diameters downstream of the flow sensor. Non-uniform flow is often caused by elbows, partially open valves or an increase in pipe diameter.

Model Number	Nominal Pipe Size	Recommended Range	
		1.5 ft/sec Flow Rate GPM	27 ft/sec Flow Rate GPM
EP 075	¾"	2.0	37.2
EP 100	1"	3.7	66.2
EP 125	1¼"	5.7	103.4
EP 150	1½"	8.3	148.8
EP 200	2"	14.7	264.6
EP 250	2½"	23.0	413.4
EP 300	3"	33.1	595.4
EP 400	4"	58.8	1058.4
EP 500	5"	91.9	1653.8
EP 600	6"	132.3	2381.4