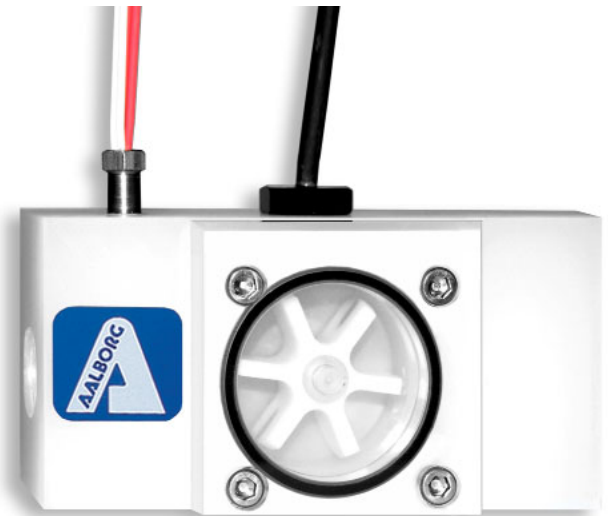


Design Features

- Flow meters for liquid flow applications.
- Jewel bearings allow for very low minimum flow rates.
- Easy to install and operate.
- Mounted horizontally or vertically.
- Only one moving part.
- Flow indication via transparent acrylic cover.
- Versatile square wave flow output signal.
- Female NPT ports.
- Multi-Parameter: Flow and temperature *outputs.
- Four wires platinum RTD option.
- Polypropylene and chemically resistant.
- PVDF models.

* PWM provides only raw pulse output signals.
 In order to get actual flow and temperature readings, user has to implement additional signal processing.



FOR LIQUIDS ONLY

Principles of Operation

Fluid flowing through the unit causes the paddle wheel to spin. As the magnets embedded in the paddle spin past the sensor, electrical pulses are produced in which frequency is proportional to the flow rate. The number of pulses per desired time interval and the K-factor (number of pulses/gallon) make it possible to calculate the flow rate and volume passing through the unit.

TABLE 43 - FLOW RATE FOR PWM

Meter Sizes	Flow Rate H ₂ O		Inlet/Outlet Ports Female NPT	Max Pressure Drop	
	[L/min]	[gal/min]		Bar	PSI
PWM04	0.15-18.9	0.04-5	3/8"	1	15
PWM06	0.3-37.6	0.08-10	1/2"	1.4	20
PWM08	0.6-64.4	0.15-17	3/4"	1.4	20
PWM10	1.3-132.5	0.35-35	1"	1.4	20

TABLE 45 - PADDLE WHEEL MODEL NUMBERS

Polypropylene	Polypropylene with RTD	PVDF	PVDF with RTD
PWM04P	PWM04PR	PWM04T	PWM04TR
PWM06P	PWM06PR	PWM06T	PWM06TR
PWM08P	PWM08PR	PWM08T	PWM08TR
PWM10P	PWM10PR	PWM10T	PWM10TR

TABLE 44 - SPECIFICATIONS

ACCURACY	±1% FS.
MAX TEMPERATURE	60 °C (140 °F).
MAX PRESSURE	10 barg (150 psig).
POWER	5 to 24 Vdc @ 2 mA.
OUTPUT SIGNAL	NPN open collector (load 30 mA max).
DIMENSIONS	56H x 108L x 53D [mm] (2.2 x 4.25 x 2.2") Without RTD and flow sensors.
CABLE	Flow signal 1.8 m (6') or optional 3.7m (12') [ft.] RTD 12 [in.] long cable.
RTD	Platinum 0.00385 TCR, meets EN 60751, Class B.

TABLE 46 - MATERIALS FLUID CONTACT:

	POLYPROPYLENE MODELS	PVDF UNITS MODELS
BODY	Polypropylene	PVDF
LID	Acrylic	PVDF
PADDLE WHEEL	PVDF	PVDF
SHAFT	Nickel Tungsten Carbide	Zirconia Ceramic
BEARINGS	Sapphire Jewels	Sapphire Jewels
O-RINGS	EPDM	PTFE
PLATINUM RTD	316 ss casing	316 ss casing