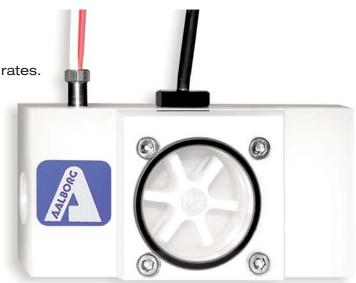


Design Features

- 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.
- Multiparameter: 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 is possible to calculate the flow rate and volume passing through the unit.

TABLE 31 - FLOW RATE FOR PWM							
METER SIZES	FLOW RATE H ₂ 0		Inlet/Outlet	Max Pressure Drop			
	[L/min]	[gal/min]	Ports Female NPT	Bar	PSI		
PWM4	0.15-18.9	0.04-5	3/8"	1	15		
PWM6	0.3-37.6	0.08-10	1/2"	1.4	20		
PWM8	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 33 - PADDLE WHEEL MODEL NUMBERS					
POLYPROPYLENE	POLYPROPYLENE with RTD	PVDF	PVDF with RTD		
PWM4P	PWM4PR	PWM4T	PWM4TR		
PWM6P	PWM6PR	PWM6T	PWM6TR		
PWM8P	PWM8PR	PWM8T	PWM8TR		
PWM10P	PWM10PR	PWM10T	PWM10TR		

TABLE 32 - 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 34 - WETTED MATERIALS				
	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		
0-RINGS	EPDM	PTFE		
PLATINUM RTD	316 ss casing	316 ss casing		