



Technical Bulletin WMX High Frequency Output

The WMX has four output types as described below. When ordering a WMX101 or WMX104 with cable, the correct pulse output selection must be specified at time of order. Selecting the high frequency output is not recommended for the battery-powered WMX104 due to reduced battery life. This output may be changed by an authorized Seametrics distributor using the DC20 software and data cable. See the table below for details on output types:

WMX Output and Duration

Output Type	Output	Pulse Duration (in Milliseconds)
Pulse	10 Units*/Pulse	10
Pulse	100 Units*/Pulse	100
Pulse	1000 Units*/Pulse	100
High Frequency	Square Wave see chart below	On/Off time approximately equal

*Units may be in Gallons or Liters depending upon the units selected for Rate and Total readings.

In control applications such as PLCs, motor drives, some injection pumps, 4-20 mA converters and other devices, a frequency proportional to flow rate (rather than a pulse output which relates to volume) is usually required. For compatibility with these devices, a High Frequency output (0-150 Hz at full flow) is available.

Please note that the flow rate at the maximum 150Hz high frequency output is less than the meter's full-scale flow rate.

High Frequency Output

Meter Size	Pulses per Gallon	Pulses per Liter	Maximum High Frequency Output Flow Rate in GPM (at 150 Hz)	Full-scale Flow Rate in GPM
3"	25.228	6.665	357	700
4"	16.362	4.323	550	1000
6"	6.307	1.666	1427	2400
8"	3.344	0.883	2691	4400
10"	2.150	0.568	4186	7000
12"	1.528	0.4037	5890	10000