

MJ/MJH-SERIES PULSE METER



APPLICATIONS

Cooling tower chemical control

Industrial water treatment

Deduct metering

Pump Pacing

Features

- Dry top multi-jet design
- Tolerates low quality water
- Simple pulse output
- Cold or hot water models

MJ-Series meters use the multi-jet principle, which has been an internationally-accepted standard for many years. This type of meter is known for its wide range, simplicity, and accuracy in low-quality water. Seametrics offers cold or hot water models. The impeller is centered in a ring of jets, with inlet jets on one level and outlet jets on another. A gear train drives the register totalizer dials. For pulse output, one of the pointers is replaced by a magnet, which is detected by an encapsulated sensor attached to the outside of the lens. Pulse rate is determined by the dial on which the magnet is placed, and by the number of sensors (single or double).

Changing the pulse rate requires no special tools and can be done in the field. Mechanically, all MJ-Series meters are the same. The difference among *MJE/MJHE, *MJR/MJHR and *MJT/MJHT meters is in the sensor. MJE/MJHE meters use a solid-state, long-lasting Hall-effect sensor, which requires power. It is suited for use with Seametrics controls and metering pumps (LMI for instance) that have sensor power. MJR/MJHR meters use a two-wire reed switch. They provide a dry contact closure and do not require power. MJT/MJHT meters totalize only and do not have a sensor.

***Note on Nomenclature:** Meter names that include "H" are hot water models. Without the "H" = cold water models.

MJ/MJH-SERIES PULSE METER



FEATURES

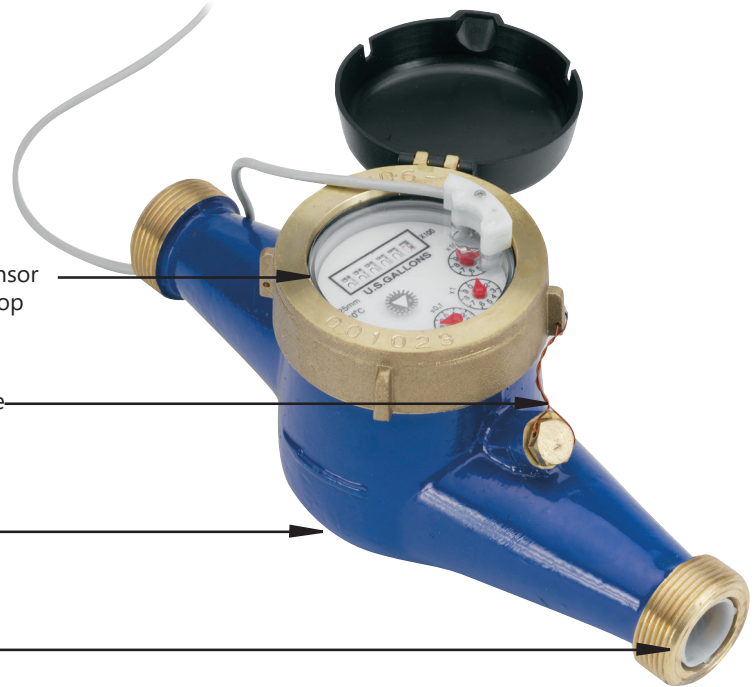
Available in cold or hot water models

Either MJE/MJHE or MJR/MJHR sensor fastens to lens without removing top

Calibration plug seal wire for tamper evidence

Cast bronze body

Union end couplings for easy service



SPECIFICATIONS*

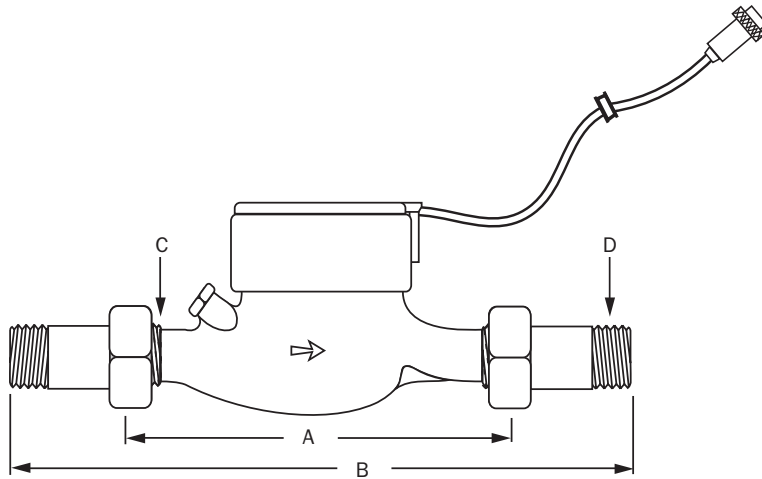
Power	6 mA at 12 Vdc (MJE/MJHE only)				
Temperature Model	Cold water	105° F (40° C) max			
	Hot Water	194° F (90° C) max			
Pressure	150 psi operating				
Materials	Body	Cast bronze, epoxy powder coated inside and out			
	Internals	Engineered thermoplastic			
	Magnet	Alnico			
Accuracy	+/- 1.5% of reading				
Pulse Output		MJE/MJHE	MJR/MJHR	MJT/MJHT	
	Sensor	Hall-effect device	Reed switch	Totalizer only	
	Max Current	20 mA+	20mA	n/a	
	Max Voltage	24 Vdc	24 Vdc or Vac	n/a	
Cable Length	12' (4 m) standard (2000' maximum run)				
Flow Rates (GPM)		3/4"	1"	1-1/2"	2"
	Minimum	0.22	0.44	0.88	1.98
	Maximum	22	52	88	132

*Specifications subject to change • Please consult our website for current data (www.seametrics.com).

MJ/MJH-SERIES PULSE METER



DIMENSIONS



	3/4"	1"	1-1/2"	2"
A (body)	7-1/2"	10-1/4"	11-3/4"	11-3/4"
B (w/couplings)	11-5/8"	15"	17"	17-5/8"
C (IPS thread)	1"	1-1/4"	2"	2-1/2"
D (NPT thread)	3/4"	1"	1-1/2"	2"

PULSE RATES

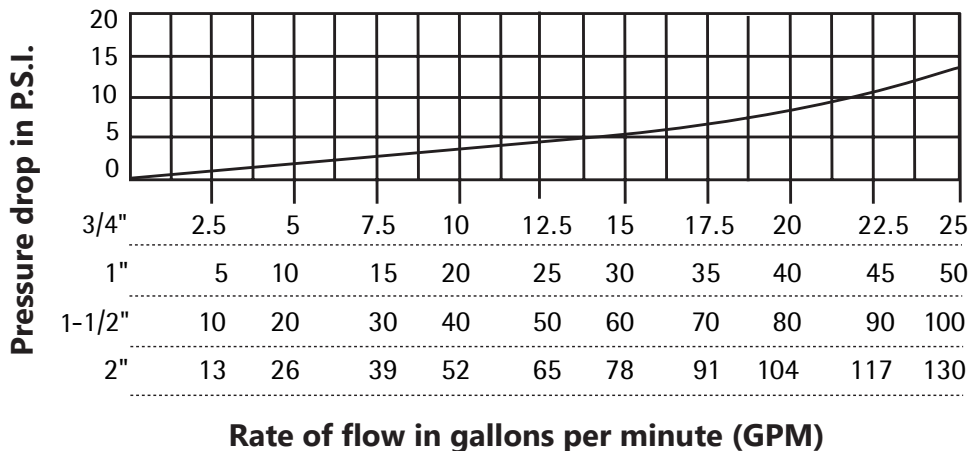
	3/4"	1"	1 1/2"	2" <i>(MJN only)</i>
Pulses per Gallon	20* 10 4† 2* 1	4† 2* 1	4† 2* 1	4† 2* 1
Gallons per Pulse	1 5* 10 50* 100	1 5* 10 50* 100	1 5* 10 50* 100	1 5* 10 50* 100
Cubic Feet per Pulse	1 5* 10	1 5* 10	1 5* 10	1 5* 10
Pulses per Cubic Meter	1 10 100	1 10 100	1 10 100	1 10 100
Liters per Pulse	1 10 100	1 10 100	1 10 100	1 10 100

*MJPR/MJNR dual reed switch meters only
†MJPR/MJNR single reed switch meters only

FLOW RATES (GPM)

	3/4"	1"	1-1/2"	2"
Minimum	0.22	0.44	0.88	1.98
Maximum	22	52	88	132

PRESSURE DROP CURVE



**MJ/MJH-SERIES
PULSE METER**



HOW TO ORDER

MODEL	SIZE	PULSE RATE	OPTIONS
Cold water, Reed switch = MJR Cold water, Hall-effect sensor = MJE Cold water, Totalizer only = MJT Hot water, Reed switch = MJHR Hot water, Hall-effect sensor = MJHE Hot water, Totalizer only = MJHT	3/4" = -075 1" = -100 1-1/2" = -150 2" = -200	†*20 Pulse/Gal = 20P †10 Pulse/Gal = 10P *4 Pulse/Gal = 4P *2 Pulse/Gal = 2P 1 Gal/Pulse = 1G *5 Gal/Pulse = 5G 10 Gal/Pulse = 10G *50 Gal/Pulse = 50G 100 Gal/Pulse = 100G 1 CF/Pulse = 1CF *5 CF/P = 5CF 10 CF/P = 10CF 1 CM/P = 1CM 10 CM/P = 10CM 100 CM/P = 100CM 1L/P = 1L 10 L/P = 10L 100 L/P = 100L	LMI 4-pin pump connector = -06 Seametrics 3-pin control connector = -07 LMI 5-pin pump connector = -106
		†3/4" Only *MJR/MJHR Meters Only	
ACCESSORIES			
Pulse divider = PD10 Pulse splitter = PS40 Pulse timer = PT35			