

# MRS®

## INDUSTRIAL METERS



Carlton MRS® industrial electric contacting multi-jet meters are an economical answer for industrial applications needing good tolerance to contaminants, an electrical output signal and total volume registration. With an easy to read register display, the MRS® water meter is designed with reliability and affordability in mind. Used in conjunction with any of Carlton's timers and controls; you can create a customized system specific to your application requirements. The MRS® meter is available in sizes from ¾" to 2". Carlton's MRS® Industrial meters meet or exceed AWWA specifications.

### NOTICE



INTENDED FOR  
INDUSTRIAL USE ONLY



DO NOT USE WITH WATER FOR HUMAN CONSUMPTION



1710 EATON DRIVE • GRAND HAVEN, MICHIGAN 49417  
PHONE (616) 842-0420 • FAX (616) 842-1265

E-MAIL [CARLON@CARLONMETER.COM](mailto:CARLON@CARLONMETER.COM) • WEBSITE [WWW.CARLONMETER.COM](http://WWW.CARLONMETER.COM)

## METER SELECTION CHART

METER / PIPE SIZE	MODEL	*CONTINUOUS FLOW	FLOW RANGE	LENGTH	HEIGHT	WIDTH	CONNECTION LENGTH (X2)
¾" X ¾"	750MRS	15 GPM	½ - 30 GPM	7½"	4⅜"	3⅞"	2"
1"	1000MRS	25 GPM	¾ - 50 GPM	10¼"	4½"	4"	2¼"
1½"	150MRS	50 GPM	1½-100 GPM	11⅞"	6"	5"	2⅜"
2"	200MRS	80 GPM	2 - 160 GPM	11⅞"	7"	6½"	2¾"

**\*Continuous Flow:** The size of meter selected should be based upon continuous flow, GPM, as opposed to pipe size. For example, if it is determined that continuous flow is 25 GPM, a 1" meter should be selected rather than a ¾" meter.

**ORDERING INFORMATION:** Specify model number shown followed by choice of contact pulse setting desired.  
Example: 1½" meter with gallon register and 10 gallons per contact = 150MRS-10 GPC.

### X = AVAILABLE CONTACT SETTINGS

(All contact settings are pre-set at the factory to your specification – GPC = Gallons Per Contact)

METER / PIPE SIZE	MODEL	0.1 GPC	1 GPC	10 GPC	100 GPC
¾" X ¾"	750MRS	X	X	X	X
1"	1000MRS	X	X	X	X
1½"	150MRS	N/A	X	X	X
2"	200MRS	N/A	X	X	X

## MRS® METER SPECIFICATIONS

<b>Reed Switch:</b>	Dry Contact type, Normally Open (N/O), 24v / 10mA (for maximum life)
<b>Pressure Rating:</b>	Maximum 150 psi.
<b>Temperature Range:</b>	35° - 122°F. Protect the meter from freezing.
<b>PH Level Range:</b>	6.5 – 8.0
<b>Accuracy:</b>	+/- 1.5% of maximum flow when operating between minimum and maximum flow range.
<b>Register Options:</b>	U.S. Gallons

### Installation Instructions:

1. Flush the line thoroughly after all plumbing changes to prevent contaminants from entering the meter.
2. Install horizontally with the register facing up and inlet port facing the water supply line.
3. For outdoor installation, protect meter from direct exposure to the elements.
4. Protect meter from backflow of water opposite of indicated flow direction.

### Helpful Hints:

1. All valves used in a water line need to be operated slowly, and all electrically actuated valves should be slow closing. This will help eliminate possible water damage from water hammer in your system. Carlon offers an excellent slow closing valve (SCV).
2. Install a strainer upstream of your water meter to protect the meter and any other in-line process equipment from becoming jammed by particulate matter.

**Warranty:** Carlon Meter, Inc. warrants its products to be free of defect in material or workmanship for a period of twelve months from the date of purchase. Contact us to obtain a copy of our complete statement of warranty.