

## METER CAPACITIES

Model	Size	Normal Flow	Maximum Flow
750MRS	¾"	15 GPM	¾ - 30 GPM
1000MRS	1"	25 GPM	¾ - 50 GPM
150MRS	1½"	50 GPM	1½ -100 GPM
200MRS	2"	80 GPM	2 - 160 GPM

**Note:** All meter ends have straight threads, not tapered.

## METER MAINTENANCE

The only suggested maintenance is to annually remove the meter from the water line and gently back flush the meter to remove particles that may have been trapped by the strainer. Back flushing is running the water into the meter from the outlet side instead of the normal flow direction. If some unusual evidence of meter performance is observed during maintenance, please contact the factory.



A broken tamperproof wire & seal indicates the meter has been disassembled.



07/17

### CARLON METER, INC. • PRODUCT WARRANTY

Carlton Meter, Inc. (hereinafter Carlton or "the company") warrants products of its manufacture to be free of defects in material or workmanship. Liability under this warranty extends for twelve (12) months from the date of purchase. Liability is limited to repair or replacement of any failed product or assembly proven to be defective in material or workmanship upon manufacturer's examination. Removal and installation costs are not included under this warranty. Manufacturer's liability shall never exceed selling price of the meter or assembly in question. Carlton disclaims all liability for damage its products caused as the result of improper installation, maintenance, use or attempts to operate products beyond their intended functionality, intentionally or otherwise. Carlton is not responsible for damages, injuries or expenses incurred through the use of its products. The above warranty is in lieu of all other warranties, either expressed or implied. No agent of the company is authorized to alter or otherwise revise this warranty.

\*For complete specifications, visit [www.carlonymeter.com](http://www.carlonymeter.com)

# Installation and Operating Instructions

## Model MRS® Industrial Series Water Meter

¾" thru 2" sizes



*Leaders in water measurement and control*

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## MRS® Multi-Jet Meter Installation Instructions

1. Flush the line thoroughly after plumbing changes to eliminate the possibility of foreign contaminants reaching the meter.
  2. Install meter horizontally with the register facing up and the inlet port facing the supply water line.
  3. It is recommended that if there is any possibility the water supply contains foreign contaminants, a strainer should be installed between the water supply and the meter.
  4. It is not recommended that the meter be run for long periods of time at the maximum flow rating as excess wear will result and the life of the meter will be reduced.
  5. To reduce potential harmful effects to equipment from water hammer caused by quick closing valves, it is suggested that you purchase and install a **Carlton** slow-closing solenoid valve.
  6. When using a reed switch to send a signal, use insulated 18-20 gauge twisted pair wire. Connect the reed switch on the meter to the input terminals on the controlling device.
  7. Protect meter from freezing and from heat in excess of 120°F
  8. Protect meter from any backflow of water opposite indicated direction of flow.
  9. For outdoor installation, protect the meter from direct exposure to the elements.
- The straight, unobstructed pipe section in front of the meter should be as follows:
    - Inlet Path - One Bend = 10 x Diameter of pipe
    - Valves (check, gate, etc.) = 12 X Diameter of pipe
    - Two Bends or One Tee and one bend(s) at random = 25 X Diameter of pipe
  - Straight, unobstructed pipe section downstream of meter = 5 X Diameter of Pipe

## MRS® Contact Settings Available

### Gallon Contact Settings Available:

Model Number	GPC 0.1	GPC 1	GPC 10	GPC 100
750MRS	X	X	X	X
1000MRS	X	X	X	X
150MRS	N/A	X	X	X
200MRS	N/A	X	X	X

## Meter Specifications

**Meter Housing:** Leaded Bronze

**Connections:** Bronze threaded connections are provided

**Reed Switch:** Dry contact, normally open (N/O), 24V 100mA

**Operating Pressure Range:** Maximum 150 psi

**Temperature Range:** 35°F - 122°F

**PH Level Range:** 6.5 - 8.0

**Register Options:** U.S. Gallons only