

## METER CAPACITIES

Model	Size	Normal Flow	Maximum Flow
625JL/JLR	5/8" x 1/2"	10 GPM	20 GPM
6251JL/JLR	5/8" x 3/4"	10 GPM	20 GPM
750JL/JLR	3/4" x 3/4"	15 GPM	30 GPM
1000JL/JLR	1" x 1"	25 GPM	50 GPM
150JLS/JLRS	1 1/2" THREADED	50 GPM	100 GPM
200JLS/JLRS	2" THREADED	80 GPM	160 GPM

**Note:** 5/8" - 1" meter ends have straight threads, not tapered.



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### 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.carltonmeter.com](http://www.carltonmeter.com)

## Installation and Operating Instructions

### Model JL® & JLR® Series Water Meter

1/2" - 2" Sizes



*Leaders in water measurement and control*

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## JL®/JLR® Meter Installation Instructions

1. Flush the line thoroughly after plumbing changes to eliminate the possibility of foreign materials damaging the meter.
  2. Operating pressure is 30 to 150 psi.
  3. Install meter horizontally with the register facing up and the inlet port facing the supply water line.
  4. It is recommended that if there is any possibility the water supply contains foreign materials, a strainer should be installed between the supply and the meter.
  5. It is not recommended that the meter be run for long periods of time at the maximum rating as excess wear will result and the life of the meter will be reduced.
  6. 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 ball valve.
  7. Protect the meter from freezing and from heat in excess of 105° F.
  8. Protect meter from any backflow of water opposite indicated direction of flow.
  9. For outdoor installation, protect the meter and remote counter from direct exposure to the elements.
- Straight unobstructed pipe section upstream of meter 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 or bends at random = 25 X Diameter of Pipe
  - Straight unobstructed pipe section downstream of meter = 5 X Diameter of Pipe

## JLR® (Remote Reader) Meters:



The signal for the JLR® is set to activate for every 100 gallons (Up to 1") of water passing through the meter. (1½" & 2" meters send a signal every 1000 gallons. This is noted on the right hand side of the A31UR® screen. The Universal Remote furnished with the meter is battery operated, self powered and receives the signal from the meter.

<b>Display:</b>	UV Protected Liquid Crystal, 8 Digit
<b>Housing:</b>	NEMA-4
<b>Dimensions:</b>	Height 4¾", Width 3", Depth 1"
<b>Operating Temperature:</b>	Neg 40°F to 180° F

## A31UR® Universal Remote Installation:

1. **You need to provide:**
  - 2 - #10 pan head screws of the appropriate length for the surface the remote is going to be mounted on. **Wire** for connecting the meter to the remote. 18 or 20 gauge twisted pair wire is recommended.
2. Use the locating notches on the back plate to locate the proper position to drill the mounting holes.
3. Mount the screw into the top hole and leave just enough room for the key-hole notch to allow the remote to slide down and secure the box at the top.
4. Remove the bottom cover and keep available to replace when finished.
5. Connect the wire from the meter's switch to the remote.
6. **Use the terminals COM (Common) & CAP (Capacitor Discharge).** There is no polarity to the wiring for a reed switch. Attach the wires coming from the meter to remote by putting one wire on the **COM (Common)** terminal and the other wire on the **CAP (Capacitor Discharge)** terminal.
7. Secure the remote to the wall by installing the second screw through the second hole from the bottom. This hole DOES NOT have wire in it.
8. Replace the cover and mounting is completed.