

**Multi-jet Dry Type
 Water Meters with Contact Output
 RHI-062R-200R**

Warranty

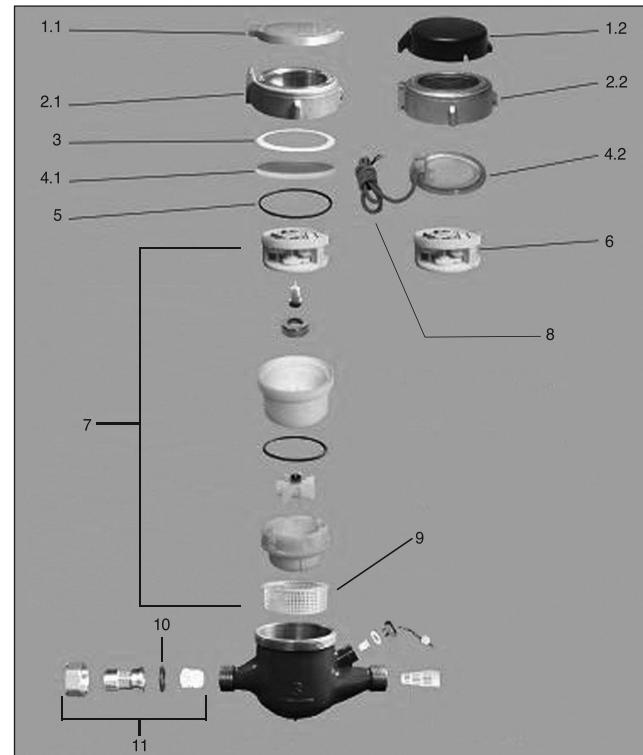
RHI water meters are warranted to perform to AWWA new meter accuracy standards, and to be free from defects in materials and workmanship for a period of 12 months from date of shipment. If a meter does not perform as warranted, Richard hourigan, inc. will repair it free of charge subject to the terms of this warranty.

Richard hourigan, inc. liability under this performance warranty is expressly limited to the repair or replacement of the meter upon the customer's returning the complete meter prepaid to:

**Richard hourigan, inc.
 Repair Department
 108 Mount Vernon Drive
 Bear, DE 19701**

This performance guarantee shall not be applicable to meters which have been damaged by aggressive water conditions, foreign matter in media, mis-application, willful misconduct, negligence, vandalism, act of God, improper installation, frost/freeze damage or using the meter outside of its specific operating parameters (especially temperature and flow ranges).

In no event shall Richard hourigan, inc. be liable for incidental or consequential damages of any kind, including but not limited to loss of profits or revenue, loss of use, cost of capital, cost of substitute equipment, facilities or services, downtime costs, delays and claims of customers of the customer or other third parties.



Internal Parts Replacement

All the internal parts of the meter lift out as a unit, after the top has been unscrewed. The lens can then be removed and the internal assembly lifted out. If necessary, turn the meter upside down and tap one end lightly on a countertop to loosen the internals. The assembly can be separated by hand.

Parts	5/8"	3/4"	1"	1 1/2"	2"
1.1 Lid/Hinge Assembly-Totalizer	A0323	A0323	A0324	A0325	A0326
1.2 Lid/Hinge Assembly-Pulser	A0023	A0023	A0024	A0025	A0026
2.1 Retaining Ring-Totalizer	A0328	A0328	A0329	A0330	A0331
2.2 Retaining Ring-Pulser	A0128	A0128	A0129	A0130	A0131
3 Lens Gasket	A0004	A0004	A0005	A0006	A0006
4.1 Lens-Totalizer	A0303	A0303	A0303	A0303	A0303
4.2 Lens-Pulser	A0003	A0003	A0003	A0003	A0003
5 O-Ring (clockwork seal)	A0044	A0044	A0044	A0044	A0044
6 Register Clockwork	A0077	A0077	A0099	A0113	A0114
Internal Assembly - includes: Register, Central Gear, Magnetic Shield, Bushing, Register Chamber, Chamber Gasket, Impellar, Measuring Chamber, Internal Strainer					
7 Strainer	A0120	A0120	A0121	A0122	A0123
8 Reed Switch Sensor w/cable, 1 ct.	A0001	A0001	A0001	A0001	A0001
8 Reed Switch Sensor w/cable, 2 ct.	A0002	A0002	A0002	A0002	A0002
9 Internal Strainer	A0015	A0015	A0017	A0019	A0021
10 Coupling Gasket, 2 ct./meter	A0028	A0028	A0030	A0032	A0034
11 Coupling Assembly		A0027	A0029	A0031	A0033

**RHI Series
 Multi-jet Dry Type
 Water Meters with Contact Output**

**RHI-062-R • RHI-075-R • RHI-100-R
 RHI-150-R • RHI-200-R**



**Multi-jet Dry Type
 Water Meters with Contact Output
 RHI-062R-200R**

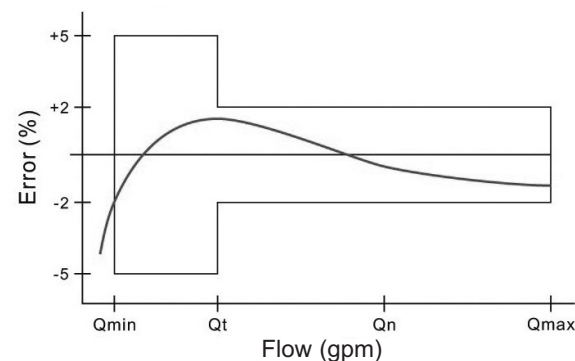
Main Technical Data

Nominal diameter	DN	062 - 5/8" x 1/2"	075 - 3/4"	100 - 1"	150 - 1 1/2"	200 - 2"
Maximum flow rate US gpm	Qmax	13.2	22	30.8	88	132
Nominal flow rate US gpm	Qn	6.6	11	15.4	44	66
Transition flow rate US gpm	Qt	0.53	0.88	1.23	3.52	5.3
Minimum flow rate US gpm	Qmin	0.133	0.22	0.31	0.88	1.32
Minimum reading US gallon		0.01	0.01	0.01	0.1	0.1
Minimum graduation US gallon		0.005	0.005	0.005	0.05	0.05

◆ Maximum Permissible Error:

In the lower zone from Qmin inclusive up to but excluding Qt is ±5%.
 In the upper zone from Qt inclusive up to and including Qmax is ±2%.

Accuracy Curve



General Information

RHI Series meters use the internationally-accepted multi-jet principle. A gear train drives the register totalizer dials. For pulse output, one of the pointers is replaced by a magnet arm, which is detected by a reed switch sensor attached to the outside of the lens. The reed switch provides dry contact closure and does not require power.

Pulse Output

Reed switch sensors respond to a magnet that rotates on the face of the meter under the lens. The sensor turns on and off once each time the magnet passes under it. Sensors are designed for electronic control loads, and should not be used to switch power loads or line voltages. See maximum current and voltage ratings, under specifications.

Inlet Strainer

Clean the strainer yearly, or as required, depending on water condition. Pull out the strainer or back-flush the meter to loosen trapped particulates.

Calibration

New meters are factory-tested to meet the AWWA C-708 Multi-Jet Meter accuracy specification.

Specifications

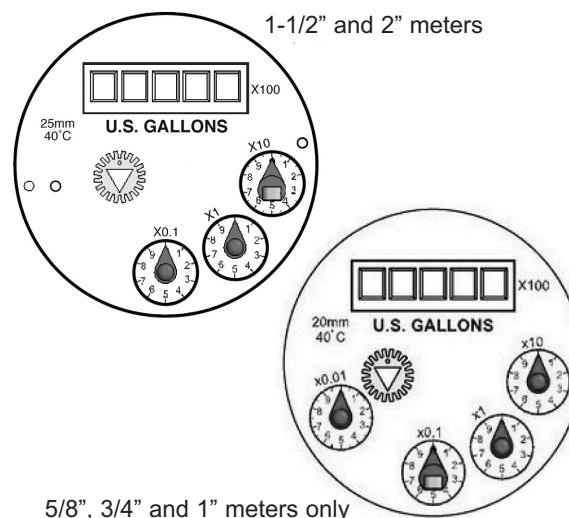
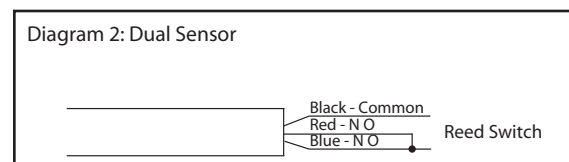
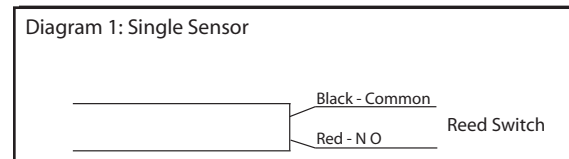
Temperature	105° F (40° C) max
Pressure	150 psi operating
Materials	
Body	Cast bronze
Internals	Engineered thermoplastic
Magnet	Alnico
Accuracy	+/- 1.5% of reading
Sensor	Reed switch
Maximum Current	20 mA
Maximum Voltage	24 Vdc or Vac
Cable Length	12' (4m) std (2000' max run)

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Suggested Meter Installation

- Thoroughly flush the service line upstream of the meter to remove dirt and debris.
- Set the meter inline. Water meters are recommended to be installed horizontally with the register facing upwards.
- Make sure the water flow follows the arrow cast on the meter body.
- Slowly open any upstream valves to prevent damage to the meter.

Connection Diagrams



Changing Pulse Rates

The pulse rate is determined by the dial on which the magnet pointer is located. To move the magnet pointer, remove meter top and lens, taking care not to lose the sealing

ring. With fingers, lift the magnet pointer off its shaft and remove the plain pointer from the target dial. Reverse their positions and press them firmly into place. Securely seat the sealing ring and then replace the lens, matching the tab on the lens to the notch on the meter so as to align the sensor with the magnetic pointer dial. Thread the meter top on and tighten.

Meter Size	Pulse Rate	Drive Gear Position	Connection Diag. #
5/8" & 3/4"	20 P/G	X0.01	2
	10 P/G	X0.01	1
	4 P/G	X0.1	1 & magnet wheel
	2 P/G	X0.1	2
	1 P/G	X0.1	1
	5 G/P	X1	2
	10 G/P	X1	1
	50 G/P	X10	2
1"	100 G/P	X10	1
	20 P/G	X0.01	2
	10 P/G	X0.01	1
	4 P/G	X0.1	1 & magnet wheel
	2 P/G	X0.1	2
	1 P/G	X0.1	1
	5 G/P	X1	2
	10 G/P	X1	1
1-1/2"	50 G/P	X10	2
	100 G/P	X10	1
	4 P/G	X0.1	1 & magnet wheel
	2 P/G	X0.1	2
	1 P/G	X0.1	1
	5 G/P	X1	2
	10 G/P	X1	1
	50 G/P	X10	2
2"	100 G/P	X10	1
	4 P/G	X0.1	1 & magnet wheel
	2 P/G	X0.1	2
	1 P/G	X0.1	1
	5 G/P	X1	2
	10 G/P	X1	1