



**POSITIVE DISPLACEMENT TYPE MAGNETIC DRIVE COLD WATER METERS**

Sensus Metering Systems

SR Water Meters - 1-1/2" (DN 40mm) to 2" (DN 50mm) sizes

These positive displacement magnetic drive Sealed Register meters feature bronze maincases and a unique tamper-proof design that prevents unauthorized removal of the internally locked register. They are available with your choice of standard read and encoder registers.

- Integral tamper-proof locking device
- Proven magnetic drive design
- Provides long-term value and virtually maintenance-free operation
- Corrosion-resistant Rocksyn measuring chambers
- Self-lubricating, molded plastic gears for long life and minimum friction
- Hermetic sealing of register eliminates dirt and moisture, tampering and lens fogging problems

**SPECIFICATIONS**

**SERVICE**

- Measurement of cold water with flow in only one direction

**ACCURACY**

- 100% +/- 1.5% of actual thruput

**MAXIMUM OPERATING PRESSURE**

- 150 psi (10.0 bar)

**MEASURING ELEMENT**

- Oscillating piston

**REGISTER**

- 5/8" to 1" sizes: Straight reading, hermetically sealed, magnetic drive
- 1-1/2" to 2" sizes: Straight reading, hermetically sealed, magnetic drive with low flow indicator
- Remote reading unit optional

**REGISTRATION**

- 5/8" to 1" sizes

- 10 gallons, 1 cubic foot, or 0.01 m<sup>3</sup>/ or 0.1 m<sup>3</sup> sweep hand revolution
- 10,000,000 gallons, 1,000,000 cubic feet or 100,000 m<sup>3</sup> capacity
- 6 odometer wheels
- 1-1/2" to 2" sizes
  - 100,000,000 gallons, 100 gallon/sweep hand revolution
  - 10,000,000 cubic feet, 10 cubic feet/sweep hand revolution
  - 100,000 m<sup>3</sup>
  - 0.1 m<sup>3</sup>/sweep hand revolution

**METER CONNECTIONS**

- All threads are straight pipe, external type, conforming to ANSI B1.20.1 or ISO R228, if specified.
  - 1-1/2" (DN 40mm) size: two bolt oval flanged spuds or 1-1/2" (DN 47.80mm) internal pipe threads
  - 2" (DN 50mm) size: two bolt oval flanged spuds or 2" (DN 59.61mm) internal pipe threads
- (Threads are taped pipe, internal type, conforming to ANSI B1.20.1 or ISO R-7 if specified. Flanges are AWWA 125 pounds [PN 10 bar] class.)

**MATERIALS**

- Maincase - Bronze
- Measuring Chamber - Rocksyn - standard; Bronze - optional
- Magnets - Ceramic and Alnico
- Strainer - Thermoplastic
- Trim - Stainless steel
- Casing Bolts - Stainless steel

Maximum rates listed are intermittent flow only. Maximum continuous flow rates as specified by AWWA are:

- 1-1/2" (DN 40mm) size: 50 gal/min. (11.0 m<sup>3</sup>/h)
- 2" (DN 50mm) size: 80 gal/min. (18.0 m<sup>3</sup>/h)

Flanged spuds are standard for 1-1/2" (DN 40mm) and 2" (DN 50mm) size meters and will be furnished unless otherwise specified. Internal tapped pipe threads only are supplied for ISO meters.

SPECIFICATIONS CONTINUED ON NEXT PAGE

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**SPECIFICATIONS CONTINUED**

SR POSITIVE DISPLACEMENT METERS QUICK REFERENCE GUIDE

(Metric sizes to nearest millimetre)

		5/8" and 5/8" x 3/4" SR (DN 15 & DN 15 x 20)	3/4" & 3/4" Short and 3/4" x 1" SR (DN 20 x 20 and DN 20 x 25)	1" SR (DN 25)	1-1/2" Screwed and Flanged End SR (DN 40)	2" Screwed and Flanged End SR (DN 50)
AWWA Normal Flow	GPM	1 - 20	2 - 30	3 - 50	5 - 100	8 - 160
	m <sup>3</sup> /h	0.25 - 4.5	0.45 - 7.0	0.7 - 11.0	1.1 - 23.0	1.8 - 36.0
AWWA Minimum Flow	GPM	1/4	1/2	3/4	1-1/2	2
	m <sup>3</sup> /h	0.06	0.10	0.15	0.35	0.45
AWWA Continuous Flow	GPM	10	15	25	50	80
	m <sup>3</sup> /h	2.5	3.5	6.0	11.0	18.0
Height - Base to Lid	Inches	4-9/16	5-1/8	5-3/4	6-7/8	7-17/32
	Metric	116mm	130mm	146mm	175mm	191mm
Height - Base to Center Line	Inches	2-1/8	2-9/32	2-5/8	2-21/32	2-5/8
	Metric	54mm	58mm	67mm	67mm	67mm
Width	Inches	4-5/8	5-1/4	6-13/16	8-3/4	9-11/16
	Metric	117mm	133mm	173mm	224mm	246mm
Pressure Loss - Maximum Flow	psi at GPM	10.8 at 20	11.0 at 30	10.9 at 50	11.4 at 100	12.1 at 160
	bar at m <sup>3</sup> /h	0.7 at 4.5	0.8 at 7.0	0.8 at 11.0	0.8 at 23.0	0.8 at 36.0

		5/8" (DN 15)	5/8" x 3/4" (DN 15 x 33)	3/4" (DN 20)	3/4" Short (DN 20)	3/4" x 1" (DN 20 x 42)	1" (DN 25)	1-1/2" (DN 40)	2" (DN 50)
Laying Length	Inches	7-1/2	7-1/2	9	7-1/2	9	10-3/4	12-5/8 x 13*	15-1/4 - 17*
	Metric	190	190	229	190	229	273	321 - 330*	388 - 432*
Meter Connections	Inches	3/4	1	1	1	1-1/4	1-1/4	1-1/2 Int.	2 Int.
	Metric	26	33	33	33	42	42	48	60
Net Weight	Pounds	5.12	5.15	8.0	8	8	12	23 - 26*	37-42*
	Kilograms	2.6	2.7	3.6	3.6	3.6	5.5	10.5 - 12*	17 - 19*

All SR II meters are available with standard read or the following remote type registers; Sensus Electronic Communications Registers (ECR), Electronic Communications/Waterproof (ECR/WP), TouchRead PitLid (TR/PL), TouchRead Convertible (TRC), Impulse Contractor (IC) and High Speed Pick-Up (HSPU).

\*Short Version

\*\*Flanged End Version



**POSITIVE DISPLACEMENT TYPE MAGNETIC DRIVE COLD WATER METERS**

Sensus Metering Systems

SR II Water Meters - 5/8" (DN 15mm) to 1" (DN 25mm) sizes

These magnetic drive positive displacement meters use an oscillating piston to provide superior sensitivity in measuring a wide range of flows for a variety of residential applications or similar service needs. The SR II meter design includes a high quality cast bronze maincase, dual inlet ports and streamlined flow pattern to provide lasting measurement accuracy and deliver years of dependable service.

- Performance tested to insure compliance with ANSI/AWWA Standard C700-latest revision
- Hermetically sealed register with proven magnetic drive design to eliminate dirt and moisture contamination, tampering and lens fogging problems
- Self-lubricating, molded plastic gears for long life and minimum friction
- Unique locking system prevents customer removal of the register to obtain free water
- Hydrodynamically cushioned design eliminates pre-mature wear of components

**SPECIFICATIONS**

**SERVICE**

- Measurement of cold water with flow in one direction only

**ACCURACY**

- 100% +/- 1.5% of actual thruput

**MAXIMUM OPERATING PRESSURE**

- 150 psi (10.0 bar)

**MEASUREMENT ELEMENT**

- Oscillating piston

**REGISTER**

- Straight reading, hermetically sealed, magnetic drive
- Remote reading unit optional

**REGISTRATION**

- 10 gallons, 1 cubic foot, or 0.01 m<sup>3</sup>/ or 0.1 m<sup>3</sup>/sweep hand revolution
- 10,000,000 gallons, 1,000,000 cubic feet or 100,000 m<sup>3</sup> capacity
- 6 odometer wheels

**METER CONNECTIONS**

All threads are straight pipe, external type, conforming to ANSI B1.20.1 or ISO R228, if specified.

**MATERIALS**

- Maincase - Bronze
- Register Box - Bronze (standard), synthetic polymer (optional)
- Measuring Chamber - Rocksyn

- Bottom Plate - Bronze, cast iron or synthetic polymer
- Magnets - Plasticized material
- Casing Bolts - Stainless steel
- Strainer - Synthetic polymer

Maximum rates listed are for intermittent flow only. Maximum continuous flow rates as specified by AWWA are: 5/8" (DN 15mm) - 10 gal/min. (2.3 m<sup>3</sup>h), 3/4" (DN 20mm) - 15 gal/min. (3.4 m<sup>3</sup>h) and 1" (DN 25mm) - 25 gal/min. (5.7 m<sup>3</sup>h) Unless otherwise noted, 5/8" size and 5/8" x 3/4" characteristics are identical. (5/8" x 3/4" designates 5/8" with 3/4" connection thread.) Also, unless otherwise noted, 3/4" and 3/4" x 1" size characteristics are identical. (3/4" x 1" designates 3/4" with 1" connection thread.) Metric designation is the normal bore x the outside diameter.

SPECIFICATIONS CONTINUED ON NEXT PAGE

**POSITIVE DISPLACEMENT TYPE MAGNETIC DRIVE COLD WATER METERS**

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SR II Water Meters - 5/8" (DN 15mm) to 1" (DN 25mm) sizes

**SPECIFICATIONS CONTINUED**

SR II POSITIVE DISPLACEMENT METERS QUICK REFERENCE GUIDE

(Metric sizes to nearest millimetre)

		5/8" and 5/8" x 3/4" SR II (DN 15 and DN 15 x 20)	3/4" & 3/4" Short and 3/4" x 1" SR II (DN 20 and DN 20 x 25)	1" SR II (DN 25)
AWWA Normal Flow	GPM	1 - 20	2 - 30	3 - 50
	m <sup>3</sup> /h	0.25 - 4.5	0.45 - 7.0	0.7 - 11.0
AWWA Minimum Flow	GPM	1/4	1/2	3/4
	m <sup>3</sup> /h	0.06	0.10	0.15
AWWA Continuous Flow	GPM	10	15	25
	m <sup>3</sup> /h	2.5	3.5	6.0
Height - Base to Lid	Inches	5	5-1/2	6-9/16
	Metric	127mm	140mm	167mm
Height - Base to Center Line	Inches	1-3/4	2-3/16	2-7/16
	Metric	44mm	56mm	62mm
Width	Inches	3-7/8	4-1/2	6-1/2
	Metric	98mm	114mm	165mm
Pressure Loss - Maximum Flow	psi at GPM	7.0 at 20	9.0 at 30	7.3 at 50
	bar at m <sup>3</sup> /h	0.5 at 4.5	0.6 at 7.0	0.5 at 11.0

		5/8" (DN 15)	5/8" x 3/4" (DN 15 x 33)	3/4" (DN 20)	3/4" Short (DN 20)	3/4" x 1" (DN 20 x 42)	1" (DN 25)
Laying Length	Inches	7-1/2	7-1/2	9	7-1/2	9	10-3/4
	Metric	190	190	229	190	229	273
Meter Connections	Inches	3/4	1	1	1	1-1/4	1-1/4
	Metric	26	33	33	33	42	42
Net Weight	Pounds	4.3	4.4	6.4	6.2	6.6	11.9
	Kilograms	1.9	2	2.9	2.8	3	5.4

All SR II meters are available with standard read or the following remote type registers; Sensus Electronic Communications Registers (ECR), Electronic Communications/Waterproof (ECR/WP), TouchRead PitLid (TR/PL) and TouchRead Convertible (TRC).

\*Short Version



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**MULTI-JET METERS**

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Sensus Metering Systems

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PMM Multi-Jet Water Meters - 5/8" to 2" sizes

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These meters feature a solid bronze maincase, a tamper-resistant magnetic drive sealed register to eliminate fogging and have only one moving part exposed to water. PMM Multi-Jets offer superior tolerance to sand and debris. They offer extreme low flow sensitivity and superior reliability over a range of flows. Their registers feature large, easy to read numbers, a full width sweep hand and low flow (leak) detector. All PMM meters meet or exceed AWWA Standard C708.

- Performance tested to insure compliance with ANSI/AWWA Standard C708
- Measuring chambers are corrosion-resistant and thermoplastic material formulated for long-term performance and great for aggressive water conditions
- Hermetically sealed and proven magnetic drive design eliminates dirt and moisture contamination, tampering and lens fogging problems
- Self-lubricating molded plastic gears for long life and minimum friction
- Unique locking system prevents customer removal of the register to obtain free water
- Hydrodynamically cushioned design eliminates pre-mature wear of components
- Available with standard and encoder type registers.

SPECIFICATIONS CONTINUED ON NEXT PAGE

**MULTI-JET METERS**

Sensus Metering Systems

PMM Multi-Jet Water Meters - 5/8" to 2" sizes

**SPECIFICATIONS**

METRIC SIZES TO NEAREST MILLIMETER

		5/8" & 5/8" x 3/4" PMM	3/4" & 3/4" Short and 3/4" x 1" PMM	1" PMM	1-1/2" Screwed and Flanged End PMM	2" Screwed and Flanged End PMM
AWWA Normal Flow	GPM m <sup>3</sup> /h	1 - 20 0.25 - 4.5	2 - 30 0.45 - 7.0	3 - 50 0.7 - 11.0	5 - 100 1.1 - 23.0	8 - 160 1.8 - 36.0
AWWA Minimum Flow	GPM m <sup>3</sup> /h	1/4 0.06	1/2 0.10	3/4 0.15	1-1/2 0.35	2 0.45
AWWA Continuous Flow	GPM m <sup>3</sup> /h	10 2.5	15 3.5	25 6.0	50 11.0	80 18.0
Laying Length	Inches Metric	7-1/2 190mm	7-1/2*, 9 190mm*, 229mm	10-3/4 273mm	12-5/8, 13** 321mm, 330mm**	10* **, 15-1/4, 17** 254mm** **, 388mm, 432mm**
Height - Base to Lid	Inches Metric	4-3/4 120mm	4-3/4 120mm	5-1/4 133mm	6-1/2 165mm	6-3/4 171mm
Height - Base to Center Line	Inches Metric	1-5/8 41mm	1-5/8 41mm	2-1/4 57mm	3-1/4 83mm	3-5/8 92mm
Width	Inches Metric	3-3/4 96mm	3-3/4 96mm	4 133mm	5-3/4, 5-1/2 133mm, 140mm**	5-3/4, 6-1/8 146mm, 156mm**
Pipe Threads	Inches Metric	3/4 - 1 20mm - 25mm	1 25mm	1-1/4 - 1-1/2 32mm - 38mm	1-1/2 Internal, 2 External 38mm, 51mm	2 Internal, 2-1/2 External 51mm, 64mm
Pressure Loss - Maximum Flow	psi at GPM bar at m <sup>3</sup> /h	3.1 at 10 0.21 at 2.8	3.2 at 15 0.22 at 4.2	3.2 at 25 0.22 at 6.9	3.1 at 50 0.21 at 13.9	4.3 at 80 0.29 at 22.1

\*Short version \*\*Flanged end version

Metric sizes to nearest millimetre.

All PMM meters are available with standard read or the following remote type registers; Sensus Evaluator Electronic Register/Waterproof (EER/WP) or the remote capable register with reed switch (RCRM).