



SM700

SmartMeter™

Solid State Electronic Water Meters

The Elster AMCO Water SmartMeter™ water meter addresses the global need for economic smart metering solutions. The no-moving-parts SM700 water meter provides accurate measurement of water flows throughout the entire product lifetime using tried and tested technology.

The SmartMeter SM700 is not affected by the wear and subsequent accuracy problems that are caused by sand and grit. Extended operational life, along with a replaceable battery option on the SM700 ensures that the SmartMeter guarantees excellent whole life cost savings.

The unique air detection system prevents measurement of air flow, which can occur at high points in the water network and at the start of water delivery.

The SmartMeter SM700 is available as a visual read meter or in a fully AMR-enabled format using inductive pads, radio communications device or any form of automatic meter reading technology (AMR device) connecting to the direct read interface through the encoded or pulse meter application.



Features

- Uses fluidic oscillation technology
- Clear LCD display and / or advanced communication technology versions available
- Replaceable battery

Benefits

- No moving parts to jam or wear - unaffected by grit, sand or particulates
- Does not measure air
- Retains accuracy throughout its entire lifetime
- Outlasts more conventional meters
- Economically brings smart technology benefits to metering systems — SmartMeter features ensure reductions in whole life costs
- Visual read or AMR

Extended Data Features

- Tamper / fraud / leakage / air / no flow detection
- Meter diagnostics
- High resolution measurement by volumetric unit

Approvals

- Certified to NSF61
- ISO 9001 manufacturing certification
- ISO 14001 environmental compliance certification
- Exceeds requirements of AWWA Standard C713

- Accurate meter data - **No under-reporting** of consumption at a cost to the water company.
- **No lost revenue through progressive loss** of accuracies - SmartMeter retains its accuracy for the whole product life.
- Replaceable battery **extends the life of the meter** - no capital cost to replace meters.
- AMR-compatible meters allow actual meter readings to be taken electronically - **avoiding estimations and manual input errors.**

SM700 Technical Specifications

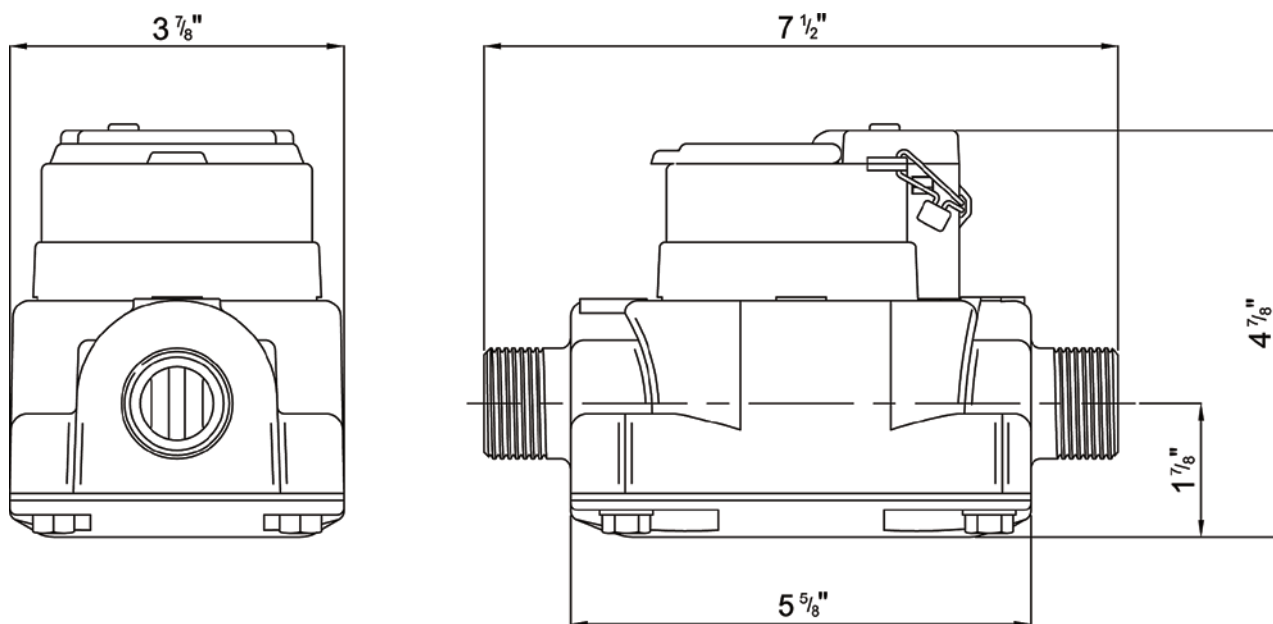
Model	Thread Size (NPSM)	Meter Length	Weight (lb)	Ingress Protection	Ambient Temp (°F)	Max Water Temp (°F)	Display Orientation	Battery Life (years)
SM700 (20gpm) 5/8"	3/4"	7 1/2"	4.2	IP68	14°-185°	122°	90° to flow direction	>15 *
SM700 (20gpm) 5/8" x 3/4"	1"	7 1/2"	4.2	IP68	14°-185°	122°	90° to flow direction	>15 *
SM700 (30gpm) 3/4"	1"	7 1/2"	4.2	IP68	14°-185°	122°	90° to flow direction	>15 *

*Replaceable battery

Due to our policy of continual improvement, Elster AMCO Water reserves the right to change the specification without prior notice.

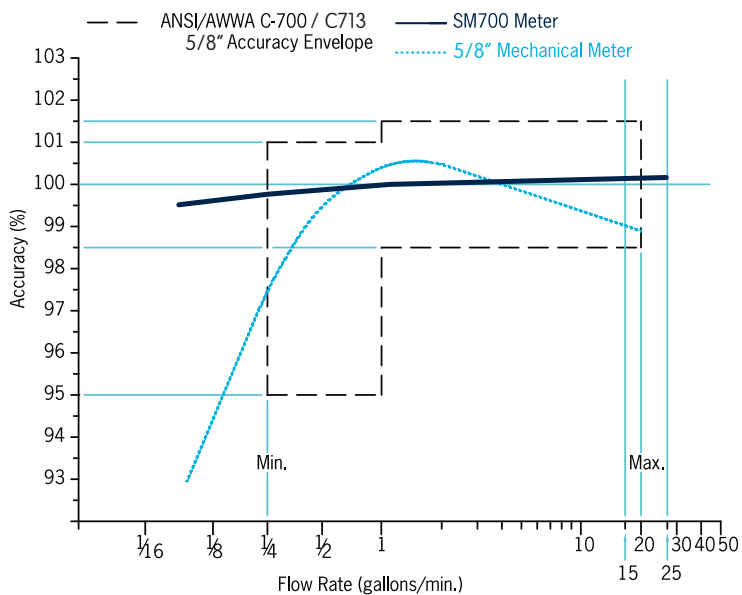
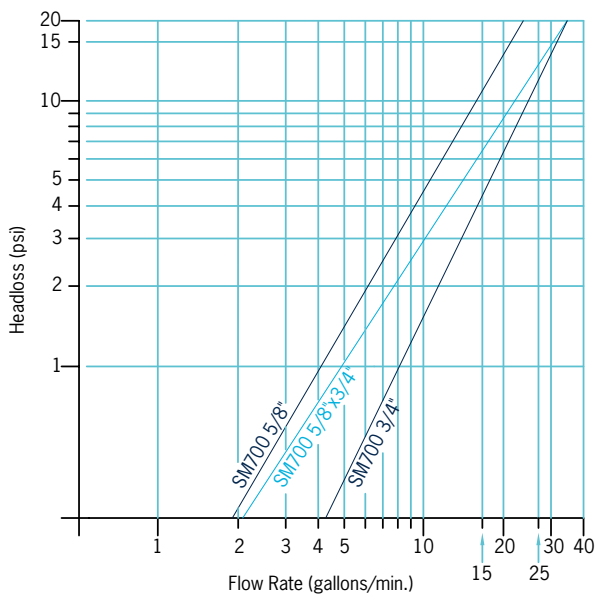
Performance Data – SM700 (All Models)	20 gpm 5/8"	20 gpm 5/8" x 3/4"	30 gpm 3/4"
Pressure Rating (psi)	150	150	150
Pressure Loss at 10 gallons / minute (psi)	<4.2	<3	<1.5
Pressure Loss at 20 gallons / minute (psi)	<15	<9	<6.5
Pressure Loss at 30 gallons / minute (psi)	na	na	<15
Normal Flow Limits (gallons / minute)	1 – 20	1 – 20	2 – 30
Low Flow Accuracy >95% (gpm)	1/8	1/8	1/4
Starting Flow (gallons / minute)	<0.1	<0.1	<0.15

	Minimum display indication	Maximum display indication
Gallons	0.01	9,999,999.99
Cubic Feet	0.001	999,999.999
Cubic Meters	0.0001	99,999.9999



SM700 Head Loss Curve

SM700 Meter Accuracy



About Elster AMCO Water, Inc.

Located in Ocala, Florida, Elster AMCO Water is part of Elster, the world's largest metering and smart metering system solution company. Elster AMCO Water is an industry leader in the development and implementation of innovative metering and system solutions and is committed to delivering superior customer service, quality products, solutions and services to the water utility industry.

About Elster

Elster has delivered over 1.5 million smart metering devices worldwide with systems located in North America, Central America, Europe, Australia, New Zealand and the Caribbean. Elster smart metering systems allow utilities to implement energy conservation measures, demand response programs, smart grid initiatives, and smart home solutions as well as achieve operational efficiencies resulting in significant value creation across the utility enterprise. Elster has over 7,500 staff and operations in 38 countries, focused in North and South America, Europe, and Asia.

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The policy of Elster AMCO Water, Inc. is one of continuous improvement and the right is reserved to modify the specifications without notice.

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