



Master Meter MMT Turbine Meters provide sustained accuracy where you need it most — your high-volume water transactions.

Built armored car tough with a rugged bronze case, these metersdeliver longservice life while churning at high RPM with the fine tuned, precision performance of a sports car. Engineering advancements yield streamlined flow patterns resulting in minimal head loss, reduced water delivery costs, and maximum possible flow to enduser.

The MMT Turbine Meter is designed with the future in mind for use in mobile and fixed network AMR/AMI data management systems.

Features & Benefits:

- Meets All Applicable AWWA Standards and the Safe Drinking Water Act; NSF-61 & NSF-372 Certified Main Case
- Sustained Accuracy for Maximum Revenue Over Time
- Precision Engineered for Efficient Flow Patterns with Minimal Head Loss
- Turbine and Chamber Constructed from Non-Hydrolyzing, Wear Resistant Polymer
- Wide Range of Flow for Maximum Accountability of Usage
- AMR/AMI Compatible

With Optional 3G Integrated Register:

- Provide Accurate Usage Detail for High Dollar, High-Volume Connections with Rich 4,000 Read Data Logging Capabilities (scalable / customer defined resolution)
- Protect Your Utility's Bottom Line:
 - » Revenue Impact Alerts Leak, Tamper, Theft (Backflow), and Zero Consumption (Indicates Potentially Damaged Meter)
 - » Deploy District Metering Areas or Zones (DMA/ DMZ) for Advanced Infrastructure Leak Management Programs



Technical Specs:

- AWWA Standard: Meets or exceeds all sections of Standard ANSI/AWWA C701 Class II, most recent revision for cold water turbine meters with AWWA Lead-Free bronze main cases.
- Safe Drinking Water Act: SDWA Compliant, NSF-61, NSF-372 Certified Lead-Free Bronze main case.
- Design/Operation: Velocity-type flow measurement. Water that is conditioned by an integral flow conditioning section flows past a rotor in the measuring chamber creating an impeller velocity directly proportional to water flow rate. The meter's register integrates that velocity into totalized flow. An inherent advantage for this design is exceptionally low head loss for improved infrastructure efficiencies and unparalleled wear mitigation. The register assembly is removable under line pressure permitting seamless, simplified upgrades in reading technology.
- Main Case: 2" 8" constructed of SDWA Compliant, NSF-61, NSF-372 Certified LeadFree Bronze. Bronze register retainers and lid are standard. A downstream test plug is provided to allow field testing without removal of the assembly from the line..
- Measuring Chamber: The measuring chamber assembly and turbine are built with an advanced synthetic polymer for long service life. This tough, non-hydrolyzing material ensures durable wear. The chamber design optimizes water flow, eliminating harsh turbulence for smooth, easy,

operation that minimizes bearing wear. Measurement surfaces are not wear surfaces, providing sustained accuracy despite the presence of entrained solids in the water. A long-life, carbide thrust bearing serves as a wear surface.

- Magnetic Drive: A reliable, direct magnetic drive provides linkage between measurement element and register. No intermediate gearing is required; no gearing is exposed to water.
- Register: Standard Direct Read and DIALOG 3G AMR System registers are available. Six wheel odometers are standard. Together, an integrated and migratable technology environment is attained; direct, 3G Mobile AMR, and Fixed Network AMI.
- Register Sealing: All Direct read and DIALOG® registers are IP-68 rated, permanently sealed with a scratch resistant glass lens, stainless steel base and wrap-around gasket to prevent intrusion of dirt or moisture.
- **Register Units**: Registration available in either U.S. gallons, cubic feet or cubic meters.
- **Test Circle**: Large center sweep hand with one hundred (100) clearly marked gradations on the periphery of the dial face.
- Low Flow/Leak Indicator: Center mounted indicator with high sensitivity resulting from direct one-to-one linkage to the measuring element.



Performance Data

METER OPERATING CHARACTERISTIC/DIMENSION	2"	3"	4"	6"	8"
Normal Operating Range [±1-1/2%] (gpm)	4-350	5-530	9-1350	25-2700	35-3500
Continuous Operating Range (gpm)	4-200	5-400	9-1000	25-2300	35-2700
Low Flow [95%] (gpm)	3	4	8	20	27
Maximum Intermittent Flow (gpm)	350	530	1350	2700	3500
Maximum Working Pressure (psi)	175	175	175	175	175
Maximum Working Temperature (°F)	150	150	150	150	150
Length	10"	12"	14"	18"	20"
Height	6.8"	9.4"	10.0"	12.4"	13.0″
Height, bottom to center line	2.2"	3.7"	4.4"	5.5″	6.0"
Width	5.9"	7.5″	8.9"	11.1"	13.6"
Weight (lbs)	24	37	42	108	140
Packed to Carton	1	1	1	1	1
Carton Weight (lbs)	26	39	44	N/A	N/A
Register Capacity [millions] (U.S. Gallons)	100	100	1000	1000	10000
Register Capacity [millions] (Cubic Feet)	10	10	100	100	1000
Maincase Material	SDWA / NSF-61 / NSF-372 Compliant Lead-Free Bronze Maincase				
Flanges/End Connection	Eliptical	Round	Round	Round	Round

Head Loss Chart



v0423.20F