



TM SERIES (WATER METERS)

FLAMEC® TM Series Water Meters are accurate, economical and designed to last. Choose TM Water Meters for water processing and irrigation applications:

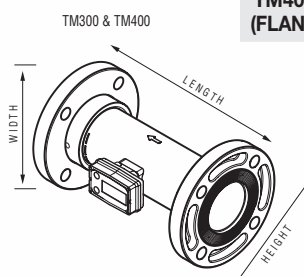
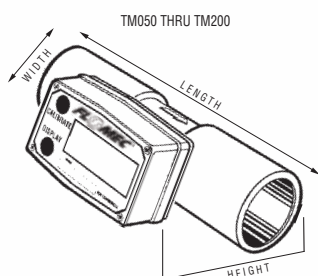
- Meets Schedule 80 PVC specifications
- Standard low-profile display
- Seven sizes with three fitting types available
- Flow rates from 1 to 600 gallons per minute (3.8 to 2271 L/min)

FEATURES / BENEFITS

- Easy to install
- Displays in gallons, litres and cubic feet
- Indicates Batch, Cumulative Totals and Rate of Flow
- Available in Spigot, NPT, BSPP (1", 1-1/2" and 2" only), 150# ANSI Flange (3" and 4" only) and DIN Flange (3" and 4" only) fittings
- Non-volatile totals means amounts are retained when batteries are replaced or power is lost
- Lithium battery life: 5 years

DIMENSIONS

| Meter Size | Length | Height | Width | Meter Size | Length | Height | Width | Meter Size | Length | Height | Width |
|------------|------------------|-----------------|-----------------|------------|------------------|------------------|-----------------|------------------|-------------------|-------------------|-------------------|
| TM050 | 3.8" (96 mm) | 2.6" (66 mm) | 2.0" (51 mm) | TM100-N | 6.1" (155 mm) | 3.1" (79 mm) | 2.0" (51 mm) | TM300 (SPIGOT) | 11.5" (292 mm) | 5.34" (136 mm) | 3.5" (89 mm) |
| TM050-N | 5.8" (147 mm) | 2.6" (66 mm) | 2.0" (51 mm) | TM150 | 5.4" (137 mm) | 3.7" (94 mm) | 2.1" (53 mm) | TM400 (SPIGOT) | 13.5" (343 mm) | 6.34" (161 mm) | 4.5" (114 mm) |
| TM075 | 3.8" (96 mm) | 2.7" (68 mm) | 2.0" (51 mm) | TM150-N | 7.4" (188 mm) | 3.7" (94 mm) | 2.1" (53 mm) | TM300-N (NPT) | 14.7" (373 mm) | 5.78" (147 mm) | 4.37" (111 mm) |
| TM075-N | 5.8" (147 mm) | 2.7" (68 mm) | 2.0" (51 mm) | TM200 | 5.5" (140 mm) | 4.2" (107 mm) | 2.4" (61 mm) | TM400-N (NPT) | 17.0" (432 mm) | 6.76" (172 mm) | 5.34" (136 mm) |
| TM100 | 4.1" (104 mm) | 3.1" (79 mm) | 2.0" (51 mm) | TM200-N | 7.5" (190 mm) | 4.2" (107 mm) | 2.4" (61 mm) | TM300-F (FLANGE) | 12.0" (305 mm) | 7.5" (190 mm) | 7.5" (190 mm) |
| | | | | | | | | TM400-F (FLANGE) | 14.0" (356 mm) | 9.0" (229 mm) | 9.0" (229 mm) |



*Length guidelines are estimates; actual length can vary up to ± 1/2" (13 mm)

**Computer display adds 1.1 in. (28 mm) to height

PRODUCT CONFIGURATION

PRODUCT IDENTIFIER **1**

TM = Water Meter, Schedule 80 PVC

TURBINE SIZE **2**

- 050** = 1/2" (15 mm)
- 075** = 3/4" (20 mm)
- 100** = 1" (25 mm)
- 150** = 1-1/2" (40 mm)
- 200** = 2" (50 mm)
- 300** = 3" (80 mm)
- 400** = 4" (100 mm)

FITTING TYPE **3**

- Blank** = Spigot (Pipe) End
- N** = NPT Female
- B** = BSPP Female (1", 1-1/2" and 2" meters only)
- F** = 150# ANSI Flange (3" and 4" meters only)
- D** = DIN Flange (3" and 4" meters only)

ELECTRONIC CHOICE **4**

- Blank** = Local Display (Standard)
- P** = Pulse Output

--->>>> **1** **2** **3** **4**
TM 300 -N -P

SPECIFICATIONS

| | | | |
|-------------------------------------|---|--------------|--------------------|
| Fitting Type: | Schedule 80 Spigot (Pipe) End | | |
| | NPT (Female) | | |
| | BSPP (Female) (1 inch, 1-1/2 inch, & 2 inch meters only) | | |
| | 150# ANSI Flange or DIN 100 Flange (3" and 4" meters only) | | |
| Meter Sizes Available: | 1/2" 3/4" 1" 1-1/2" 2" 3" 4" | | |
| Flow Range: | 1/2" (050) | 1 - 10 GPM | (3.8 - 38 L/min) |
| | 3/4" (070) | 2 - 20 GPM | (7.6 - 76 L/min) |
| | 1" (100) | 5 - 50 GPM | (19 - 190 L/min) |
| | 1-1/2" (150) | 10 - 100 GPM | (38 - 380 L/min) |
| | 2" (200) | 20 - 200 GPM | (76 - 760 L/min) |
| | 3" (300) | 40 - 400 GPM | (151 - 1514 L/min) |
| | 4" (400) | 60 - 600 GPM | (227 - 2271 L/min) |
| Accuracy (% of Reading): | ± 3.0% | | |
| Pressure Rating (1/2" - 2"): | 225 psi (15.3 bar) @ 73° F (23° C) | | |
| BSP | 150 psi (10.3 bar) @ 73° F (23° C) | | |
| Pressure Rating (3" - 4"): | 225 psi (15.3 bar) @ 73° F (23° C) | | |
| DIN | 135 psi (9.1 bar) @ 73° F (23° C) | | |
| For CE Applications | 135 psi (9.1 bar) @ 73° F (23° C) | | |
| Operating Temperature Range: | +32° F to +140° F (0° C to +60° C)** | | |

| | | |
|--------------------------------------|---|--------------------------|
| Typical K-Factor: | 1/2" (050) | 2,500 PPG (660 Pulses/L) |
| | 3/4" (070) | 1,100 PPG (291 Pulses/L) |
| | 1" (100) | 565 PPG (149 Pulses/L) |
| | 1-1/2" (150) | 215 PPG (57 Pulses/L) |
| | 2" (200) | 100 PPG (26 Pulses/L) |
| | 3" (300) | 43 PPG (11 Pulses/L) |
| | 4" (400) | 17 PPG (4.5 Pulses/L) |
| Wetted Materials (1/2" - 2"): | Housing: | PVC |
| | Bearings: | Ceramic |
| | Shaft: | Tungsten Carbide |
| | Rotor: | PVDF |
| | Rings: | 316 Stainless Steel |
| Wetted Materials (3" - 4"): | Housing: | PVC |
| | Bearings: | PEEK |
| | Shaft & Thrust Washers: | Stainless Steel |
| | Rotor & Nose Cone: | Acetal |
| | Signal Generator: | Ferrite |
| Calibration Report: | Comes standard with P (Pulse out) TM models | |
| | N.I.S.T. - Certification available | |

*At the end of Extended Flow Range accuracy may decrease. Damage to the meter may occur if running at high Extended Range.

**PVC pressure rating will incrementally decrease above 73° F (23° C).

ACCESSORIES / ELECTRONICS

| Part No. | Description |
|-----------|--|
| 113275-1 | FM Approved Remote Kit Assembly (will not make meter FM Approved) |
| 125260-01 | 90° Display Adapter Kit |
| 125080-1 | Pulse Access Dust Cover (must be used in conjunction with FM Approved Remote Kit Assembly) |
| 145507-01 | Kit, Adapter, TM-QS11-Q09 Display |
| 145507-02 | Kit, Adapter, TM-QS12-Q09 Display |
| 145507-03 | Kit, Adapter, TM-QS13-Q09 Display |
| 145507-04 | Kit, Adapter, TM-QS11-No Display |
| 145507-05 | Kit, Adapter, TM-QS12-No Display |
| 145507-06 | Kit, Adapter, TM-QS13-No Display |
| 145507-07 | Kit, Adapter, TM-QS11-Display Ready |
| 145507-08 | Kit, Adapter, TM-QS12-Display Ready |
| 145507-09 | Kit, Adapter, TM-QS13-No Display |

APPLICATIONS

- OEM water treatment equipment / skids
- Sub-metering of facility water usage
- Waste water treatment equipment
- Irrigation
- Batching
- Plant process water
- Water based cooling systems
- Chemical feed systems
- Monitoring clean fluids
- Cooling towers
- Blending

APPROVALS



*NSF approval for 3" and 4" sizes only