

TM SERIES (WATER METERS)

FLOME[®] 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
- Flowrates from 1 to 800 gallons per minute

FEATURES / BENEFITS

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

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

PRODUCT CONFIGURATION

PRODUCT IDENTIFIER **1**

TM = Water Meter, Schedule 80 PVC

TURBINE SIZE **2**

050 = 1/2 inch, **075** = 3/4 inch, **100** = 1 inch, **150** = 1-1/2 inch, **200** = 2 inch, **300** = 3 inch, **400** = 4 inch

FITTING TYPE **3**

Blank = Spigot (Pipe) End

-N = NPT Female

-B = BSPP Female (1 inch, 1-1/2 inch, 2 inch, 3 inch & 4 inch meters only)

-F = 150# ANSI Flange (3 inch and 4 inch meters only)

ELECTRONIC CHOICE **4**

Blank = Local Display (Standard)

-P = Pulse Output

-GA = 4-20 mA Output, No Display (3 inch and 4 inch meters only)

-GG = Pulse Output with Display (3 inch and 4 inch meters only)

-GX = 4-20 mA Output, with Display (3 inch and 4 inch meters only)

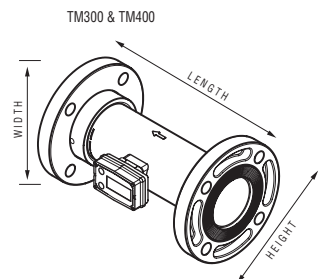
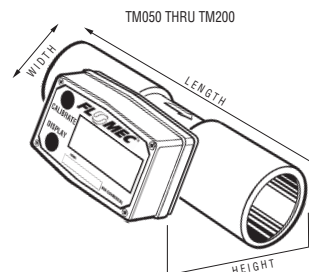
-SC = Scaled Pulse Output (3 inch and 4 inch meters only)

1 2 3 4
 ---->>> **TM + 300 + -N + -GA = SAMPLE**

DIMENSIONS

| Meter Size | Length " (mm) | Height " (mm) | Width " (mm) |
|------------|---------------|---------------|--------------|
| TM050 | 3.8 (96) | 2.6 (66) | 2.0 (51) |
| TM050-N | 5.8 (147) | 2.6 (66) | 2.0 (51) |
| TM075 | 3.8 (96) | 2.7 (68) | 2.0 (51) |
| TM075-N | 5.8 (147) | 2.7 (68) | 2.0 (51) |
| TM100 | 4.1 (104) | 3.1 (79) | 2.0 (51) |
| TM100-N | 6.1 (155) | 3.1 (79) | 2.0 (51) |
| TM150 | 5.4 (137) | 3.7 (94) | 2.1 (53) |
| TM150-N | 7.4 (188) | 3.7 (94) | 2.1 (53) |
| TM200 | 5.5 (140) | 4.2 (107) | 2.4 (61) |
| TM200-N | 7.5 (190) | 4.2 (107) | 2.4 (61) |

| Meter Size | Length " (mm) | Height " (mm) | Width " (mm) |
|------------------|---------------|---------------|--------------|
| TM300 (SPIGOT) | 11.5 (292) | 5.34 (136) | 3.5 (89) |
| TM400 (SPIGOT) | 13.5 (343) | 6.34 (161) | 4.5 (114) |
| TM300-N (NPT) | 14.7 (373) | 5.78 (147) | 4.37 (111) |
| TM400-N (NPT) | 17.0 (432) | 6.76 (172) | 5.34 (136) |
| TM300-F (FLANGE) | 12.0 (305) | 7.5 (190) | 7.5 (190) |
| TM400-F (FLANGE) | 14.0 (356) | 9.0 (229) | 9.0 (229) |



*Length guidelines are estimates; actual length can vary up to ± 1/2".

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

SPECIFICATIONS

| | | | |
|-------------------------------------|--|--------------|---------------------------|
| Fitting Type: | Schedule 80 Spigot (Pipe) End | | |
| | NPT (Female) | | |
| | BSPP (Female) (1 inch, 1-1/2 inch, 2 inch, 3 inch & 4 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 - 37.9 LPM) |
| | 3/4" (070) | 2 - 20 GPM | (7.6 - 75.7 LPM) |
| | 1" (100) | 5 - 50 GPM | (18.9 - 190 LPM) |
| | 1-1/2" (150) | 10 - 100 GPM | (38.0 - 380 LPM) |
| | 2" (200) | 20 - 200 GPM | (76 - 760 LPM) |
| | 3" (300) | 40 - 400 GPM | (151 - 1514 LPM) |
| | 3" Extended Range * | 30 - 600 GPM | (131 - 2271 LPM) |
| | 4" (400) | 60 - 600 GPM | (227 - 2271 LPM) |
| | 4" Extended Range * | 40 - 800 GPM | (151 - 3028 LPM) |
| 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 PPL |
| | 3/4" (070) | 1,100 PPG / 291 PPL |
| | 1" (100) | 565 PPG / 149 PPL |
| | 1-1/2" (150) | 215 PPG / 57 PPL |
| | 2" (200) | 100 PPG / 26 PPL |
| | 3" (300) | 43 PPG / 11 PPL |
| | 4" (400) | 17 PPG / 4.5 PPL |
| 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).

APPROVALS



ACCESSORIES / ELECTRONICS

| Part No. | Description |
|-----------|--|
| 113275-1 | FM Approved Remote Kit Assembly (will not make meter FM Approved) |
| 125260-01 | 90° Display Adapter Kit (will not work with GA, GX or SC Electronic options) (works with Standard Choice only) |

| Part No. | Description |
|----------|--|
| 125080-1 | Pulse Access Dust Cover (must be used in conjunction with FM Approved Remote Kit Assembly) |

Service & Warranty: For technical assistance, warranty replacement or repair contact your **FLOMEC®** or **GPI®** distributor: In North or South America: **888-996-3837 / GPI.net**
Outside North or South America: **+61 2 9540 4433 / flomec.com.au**