TM SERIES (WATER METERS)

FLOMEC® 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, BSP (1 in., 1-1/2 in., 2 in. Only), 150# ANSI Flange (3 in. and 4 in. Only) and DIN Flange (3 in. and 4 in. Only) fittings
- Non-volatile totals means amounts are retained when batteries are replaced or power is lost
- Alkaline battery life: 2 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

1 PRODUCT IDENTIFIER:

TM = TM Series Water Meters

2 TURBINE SIZE:

05 = ½ in.
07 = ¾ in.
10 = 1 in.
15 = 1-1/2 in.
20 = 2 in.
30 = 3 in.
40 = 4 in.

3 METER PORT CHOICE:

N = NPT, Female (Available In All Sizes)
B = BSP Female (1 in., 1-1/2 in., 2 in. Only)
F = Flange, ANSI (3 in. and 4 in. Only)
D = Flange, DIN (3 in. and 4 in. Only)
S = Spigot (Available In All Sizes)
No Meter - Electronics Only
X = No Meter - Use With X9 Electronics Only (Q9 Computer Replacement Kit)

4 ELECTRONIC CHOICE:

Local Computer w/Display, Meter Mounted
Q9 = Q9 2-Button Computer
Q1 = Q9 2-Button Computer, Vertical Mount (90° Adapter)
Local Computer w/Display & Module, Meter Mounted
P9 = Q9 2-Button Computer w/Pulse Out Module, includes External Power and 10 ft. of Cable
42 = Q9 2-Button Computer w/4-20mA Module and 10 ft. of Cable
Module, Meter Mounted (No Display)
PO = Pulse Out Conditioned Signal Module w/Cable
Replacement Computer Kit (Display Only)
X9 = Q9 2-Button Computer Replacement Kit
Retrofit Computer Kit (Display Only)
R9 = Q9 2-Button Computer Retrofit Kit (Replaces 09 Display)
No Electronics - Turbine Only
XX = No Electronics - Turbine Only

5 CALIBRATION OF COMPUTER / DISPLAY:

GM = Gallons Per Minute (For Use With Q9, P9, 42, X9, R9 Electronics Only)
LM = Liters Per Minute (For Use With Q9, P9, 42, X9, R9 Electronics Only)
XX = No Calibration (Use With PO & XX Electronics Only)

6 PACKAGING:

A = 05 Thru 10 Turbine Only
05 Thru 10 Turbine w/Q9 Electronics
X9 & R9 Electronics Kit (Replacement Computer)
B = 15 Thru 20 Turbine Only
15 Thru 20 Turbine w/Q9 Electronics
C = 05 Thru 20 Turbine w/P9, 42, PO Electronics
D = 30N, 30S Turbine Only
30N, 30S Turbine w/Q9, P9, 42, PO Electronics
40S Turbine Only
40S Turbine w/Q9, P9, 42, PO Electronics
E = 30F, 30D Turbine Only
30F, 30D Turbine w/Q9, P9, 42, PO Electronics
40N, 40F, 40D Turbine Only
40N, 40F, 40D Turbine w/Q9, P9, 42, PO Electronics

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1  2  3  4  5  6

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TM  10  N  Q9  GM  A
DIMENSIONS

<table>
<thead>
<tr>
<th>Meter Size &amp; Fitting</th>
<th>Length (in)</th>
<th>Height (in)</th>
<th>Width (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>05 Spigot</td>
<td>4.3 (109)</td>
<td>2.5 (63)</td>
<td>2.1 (53)</td>
</tr>
<tr>
<td>05 NPT</td>
<td>6.0 (152)</td>
<td>2.7 (68)</td>
<td>2.1 (53)</td>
</tr>
<tr>
<td>07 Spigot</td>
<td>4.4 (112)</td>
<td>2.7 (68)</td>
<td>2.1 (53)</td>
</tr>
<tr>
<td>07 NPT</td>
<td>6.1 (155)</td>
<td>2.9 (73)</td>
<td>2.1 (53)</td>
</tr>
<tr>
<td>10 Spigot</td>
<td>4.5 (114)</td>
<td>2.9 (73)</td>
<td>2.1 (53)</td>
</tr>
<tr>
<td>10 NPT / BSP</td>
<td>6.5 (165)</td>
<td>3.1 (79)</td>
<td>2.1 (53)</td>
</tr>
<tr>
<td>15 Spigot</td>
<td>5.4 (137)</td>
<td>3.6 (91)</td>
<td>2.1 (53)</td>
</tr>
<tr>
<td>15 NPT / BSP</td>
<td>7.6 (193)</td>
<td>3.8 (96)</td>
<td>2.3 (58)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Typical K-Factor:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2 in. (05)</td>
</tr>
<tr>
<td>3/4 in. (07)</td>
</tr>
<tr>
<td>1 in. (10)</td>
</tr>
<tr>
<td>1-1/2 in. (15)</td>
</tr>
<tr>
<td>2 in. (20)</td>
</tr>
<tr>
<td>3 in. (30)</td>
</tr>
<tr>
<td>4 in. (40)</td>
</tr>
</tbody>
</table>

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

LENGTH GUIDELINES ARE ESTIMATES; ACTUAL LENGTH CAN VARY UP TO ± 1/2 IN. (13MM).

P9 & 42 Electronics adds 0.90 in. (23 mm) to height.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Fitting Type:</th>
<th>Schedule 80 Spigot (Pipe) End</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPT (Female)</td>
<td>BSP (Female) (1 in., 1-1/2 in., &amp; 2 in. meters only)</td>
</tr>
<tr>
<td>150# ANSI Flange or DIN 100 Flange (3 in. &amp; 4 in. meters only)</td>
<td></td>
</tr>
</tbody>
</table>

| Flow Range:                 | 1/2 in. (05) = 1 - 10 GPM (3.8 - 38 L/min) |
|                            | 3/4 in. (07) = 2 - 20 GPM (7.6 - 76 L/min) |
|                            | 1 in. (10) = 5 - 50 GPM (19 - 190 L/min) |
|                            | 1-1/2 in. (15) = 10 - 100 GPM (38 - 380 L/min) |
|                            | 2 in. (20) = 20 - 200 GPM (76 - 760 L/min) |
|                            | 3 in. (30) = 40 - 400 GPM (151 - 1514 L/min) |
|                            | 4 in. (40) = 60 - 600 GPM (227 - 2277 L/min) |

| Accuracy (% of Reading):    | ± 3.0% |
| Pressure Rating (1/2 - 2 in.): | 225 psi (15.3 bar) @ 73° F (23° C) |
| BSP                         | 150 psi (10.3 bar) @ 73° F (23° C) |
| Pressure Rating (3 - 4 in.): | 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)** |

ELECTRONICS OPTIONS

**Q9** = Standard Local Display with 2 Totals and Rate of Flow

**Q1** = The Standard Q9 Display, turned 90° for a vertically installed meter body

**P9** = Pulse Output Module installed between the local display and the meter body
- Provides a Scaled NPN Open Collector Pulse
- Can provide External Power to the local display
- Comes with 10 ft. of installed cable

**42** = 4-20 mA Module installed between the local display and the meter body
- Provides a 4-20 mA signal
- Provides a Scaled NPN Open Collector Pulse
- Comes with 10 ft. of installed cable

ACCESSORIES

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>113275-10</td>
<td>FM Approved Remote Kit – Q9 Display (will not make meter FM Approved)</td>
</tr>
<tr>
<td>125260-02</td>
<td>90° Display Adapter Kit – Q9 Display</td>
</tr>
</tbody>
</table>

CERTIFICATIONS

NSF certification for 3 & 4 in. sizes only

 NTN-1043-TM Rev B 10/2020

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