

TM SERIES (WATER METERS)

FLOME[®] MEC 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 = ½ inch, **075** = ¾ inch, **100** = 1 inch, **150** = 1-½ 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)

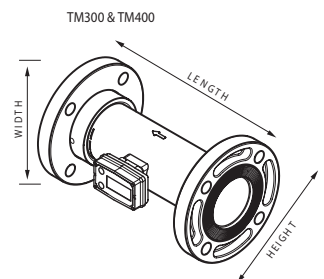
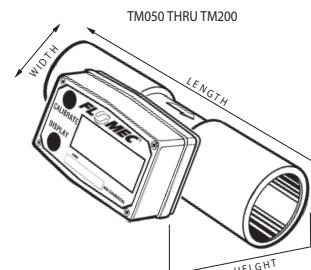
-SC = Scaled Pulse Output (3 inch and 4 inch meters only)

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 (NPT)	14.7 (373)	5.78 (147)	4.37 (111)
TM400 (NPT)	17.0 (432)	6.76 (172)	5.34 (136)
TM300 (FLANGE)	12.0 (305)	7.5 (190)	7.5 (190)
TM400 (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**