

## FM15~25 Series Water Flow Meter

### FM15-25 Series Water Flow Meter

#### Applications:

FM15-25 Series Rotatory Wing Dry Transmitting Water Flow Meters are used for measuring the volume of cold/hot potable water passing through the pipeline and remotely transmitting the signal of the water volume to remote monitoring equipment.



#### Features:

- Rotary-vane dry-dial type
- Iron Body
- Magnetic drive
- Local dials provide confirmation of remote indicators
- Maintenance free over long-term operation
- Pulse signal for monitoring by centralized system.

### Technical Data

Part Number	Meter Size Dia. DN (mm)	Class	Qs	Qp	Qt	Qmin
			Overload Flow	Normal Flow	Transitional Flow	Minimum Flow
M <sup>3</sup> / h						
FM-DN15	15	A	3	1.5	0.15	0.06
		B			0.12	0.03
FM-DN20	20	A	5	2.5	0.25	0.10
		B			0.20	0.05
FM-DN25	25	A	7	3.5	0.35	0.14
		B			0.28	0.07

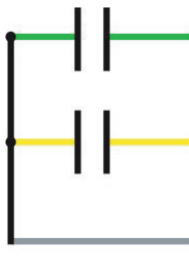
A. Qs—overload flow allowed without damaging the meter for approx 1 minute

B. Qp—normal rated maximum operating condition.

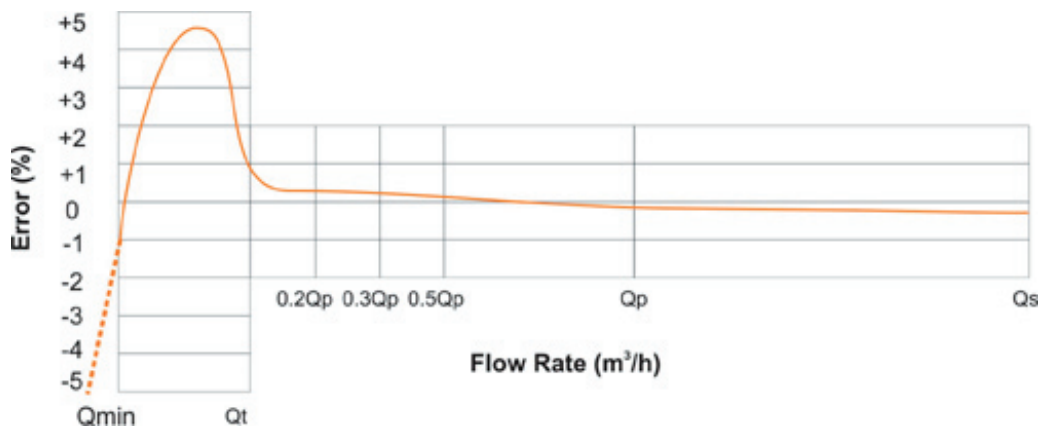
C. Qt--the flow when the error range changes from 5% down to 2%

D. Qmin---the minimum flow with error less than 5%

## Wiring Diagram

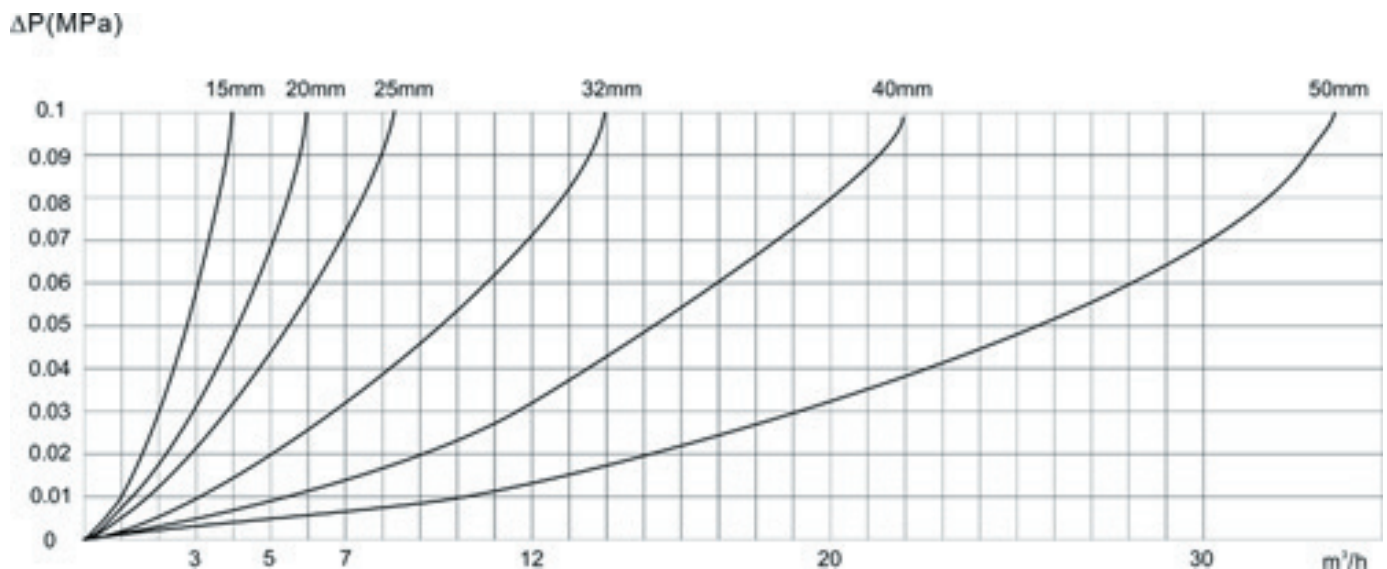
Type	Wiring	Wire Color		
		Green	Yellow	Grey
Three-Wire Reed Switch Two-level Transmitting	 <p>Green</p> <p>Yellow</p> <p>Grey</p>	Signal Transmitting	Signal Transmitting	GND

## Flow Error Curve



Error in the low flow zone from  $Q_{min}$  to  $Q_t$  is  $\pm 5\%$ .  
 Error in the upper zone from  $Q_t$  to  $Q_s$  is  $\pm 2\%$ .

## Head Loss Curve



## Signal Type

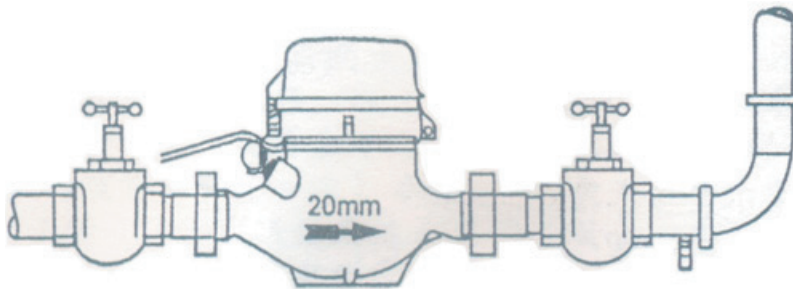
Signals are transmitted by reed switch, 10ma typical or hall effect transmitter rated at approx 5mA.

## Working Condition

- Water Temperature: 10~90°C
- Working Pressure: ≤1 MPa
- Meter should be in a dry environment, not outdoor rated.

## Installation Requirement

- Clear debris from the pipe before installation.
- Must be installed in horizontal pipe section with the head upwards and arrow pointing in the flow direction.
- Must be installed in a dry, freeze protected location and easy for removal and maintenance.
- Suggest installing in a special metering box.
- Isolation valves shall be installed before & after the water meter.



## Dimensions & Weight

Part Number	Meter Size Dia. DN (mm)	Length (L)	Width (B)	Height (H)	Connecting Thread (G)	Weight (kg)
		(mm)				
FM-DN15	15	165	99	124	G3 / 4B	1.5
FM-DN20	20	190 / 195	99	124	G1B	1.7
FM-DN25	25	225	103	132	G1 1/4B	2.4

