

Water Flow Detector – ADWM



ADWM multi jet is a velocity type inferential water meter. Water enters into the measuring chamber through specially designated holes, which directs the flow at the turbine equally from several points around its circumference; minimizing uneven wear on the turbine and its shaft. Water moves out from the chamber through a different set of holes to the outlet. The number of performed turns of the turbine is proportional to the volume of water passing through the meter. A drive magnet transmits the motion of the turbine to a driven magnet of the dial register, housed in a strong upper chamber. The driven magnet is connected to a gear train which translates the turbine's rotation into volume totalization displayed on the counters. An external regulator mechanism is provided to adjust and fine tune the accuracy within excellent limits.



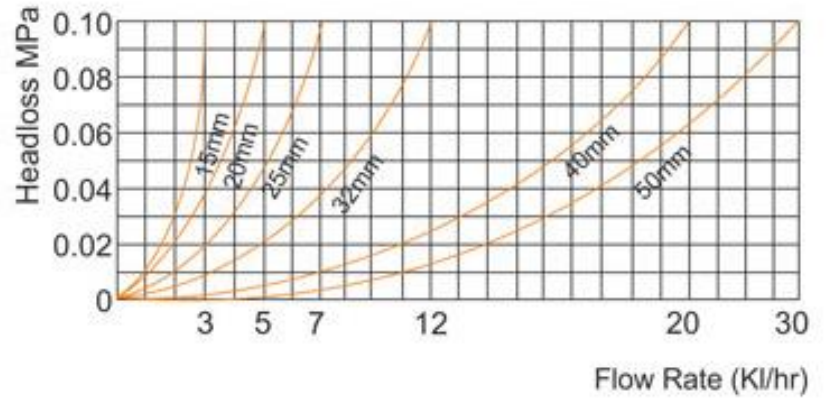
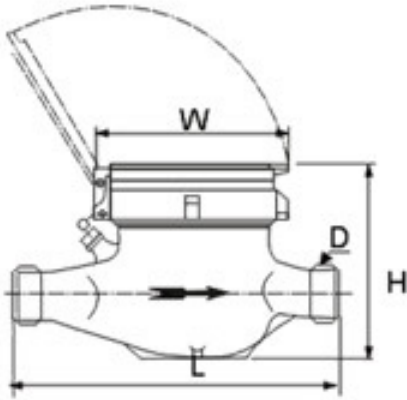
It has inbuilt Lora Transceiver module that can transfer pulse output meterdata to the LoRa Gateways. It sends the meter reading and other parameters of the meter to the utility provider through wireless (LoRaWAN) medium.



- The total internal mechanism is sealed using washers and rings to the brass body and covered using Locking ring of engineering plastic threaded to the brass body internally to make it a water proof assembly.
- Its unique anti-reversal flow construction restricts reverse flow and does not record reading.
- The counters designed simple and precise, read in Kilo Litres and litres in circular pointers.
- Star wheel in the middle show's turbine movements at the lowest flows and can be used to detect leakage.
- Tamper-resistant construction: Meters cannot be tampered without breaking seal.
- Light weight turbine pivoted perfectly on a highly polished non-magnetic SS Pivot keeps in perfect symmetrical balance and avoids friction and tension in turbine movement.
- High quality UV additive virgin engineering plastics used for manufacturing of components, prevents degradation over long period even in worst environment conditions.
- Not sensitive to particulates in the water... The inner case protective cover design prevents foreign particles to simply pass right through, causing no damage to the meter
- Protective chambers restrict and designate the flow and protects the turbine from direct impact of water force.
- Optional Pulse output facility can be provided a 1 ltr or 10 ltr/ pulse for advanced AMR Application.

DIMENSIONS

Model	ADWM-15	ADWM-20	ADWM-25
Pipe Diameter	DN15	DN20	DN25
Minimum Flow Rate q_{min} (m ³ /h)	30	50	70
Transitional Flow Rate q_t (m ³ /h)	120	200	280
Nominal Flow Rate q_n (m ³ /h)	1500	2500	3500
Maximum Flow Rate q (m ³ /h)	3000	5000	7000
Connection	G3/4'	G1'	G1 1/4'
Length (mm)	165	190	260
Width (mm)	83	83	83
Height (mm)	89	89	89
Temperature	< 50° C		
Materials	Brass/ Nylon		
Maximum Operation Pressure	1.6 Mpa		
Pressure Loss	$\Delta P < 0.1$ MPa		
Pressure Stage	PN16		
Protection Class	IP65/IP68		
Data Storage	24 months history data		
Interface & Communication	Pulse output with LoRaWAN Configuration		
Installation	Horizontal or Vertical		
Display and Indication	Unit: Kilo-Liter		
Standard Compliance	IS 779:94 ISO4064		
LoRaWAN Protocol	Class A and Class C		
Modulation	LoRaWAN		
Frequency	865 to 867MHz		
Channel	8 Channel (configurable)		
Transmit Power	14dBm		
Activation Method	OTAA/ABP		



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