



TM

Uni-Tech Valves & Pneumatics

ISO 9001 - 2008

ELECTROMAGNETIC FLOW METER

MODEL NO : U-MAG

DESCRIPTION

U-MAG Series electromagnetic flow meter can be used to accurately measure the flow rate of liquids which is electrical conducting caustics, and mixed with liquid and solids. They are widely use through out industries of petroleum, chemical engineering, Pharmacology, paper making, electric power, environmental protection and so on forth.

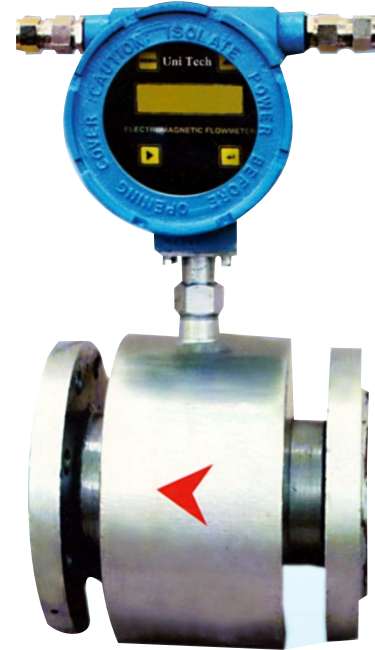
MEASURING / WORKING PRINCIPAL

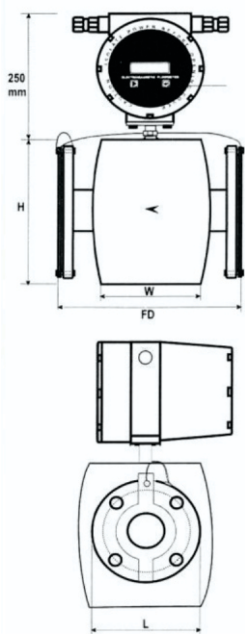
Electromagnetic flowmeter follows the faraday law of electromagnetic induction. When the conductive liquids flow through the electromagnetic flow meter, the induce electromotive force will be produced in the conductor and the induce electromotive force directly proportional to the velocity of conductive liquid, magnetic flux density and width of the conductor (Inside diameter) of flow meter such induce electromotive force is detected by a pair of electrodes on the tube wall of the flowmeter, and the rate of flow can be aquired by mathematical operation

TECHNICAL SPECIFICATION

Caliber	: Pipeline PTFE Lining 10 to 500mm
Excitation System	: Constant Flux Sq. Wave Excitation
Installation from	: Split / Integral
Lining	: PTFE
Material of Electrode	: SS 316L/ HC/ Tungsten Carbide
Medium	: Conductive Liquid
Accuracy	: 0.2%F.S., 0.5%F.S.,1.0%F.S.
Conductivity of Med.	: >5uS/cm
Velocity	: 0.5-10m/s

Pipe Connection	: Flanged(150#)
Temperature of Med.	: -10 to 120
Category of Shielding	: IP 65/67/68
Output Signal	: 4-20mA Current/Pulse, 4-20mA Pulse+RS484
Cable Interface	: 1/2" Female Thread
Communication	: Rs485, Rs232
Power Supply	: 220VAC, 24VDC
Type of Application	: General/Waterproof Type





DIMENSIONS (MM)					FLOW RANGE in m ³ /hr	
SIZE	L	W	H	FD	Velocity=0.3m/s	Velocity=6m/s
25	150	100	180	200	0.53	10.60
40	180	100	210	200	1.36	27.14
50	180	100	210	200	2.12	42.41
65	185	100	220	200	3.58	71.68
80	207	100	240	200	5.42	108.57
100	250	150	274	250	8.48	169.65
125	280	175	300	250	13.25	265.07
150	320	175	330	300	19.09	281.70
200	380	175	390	350	33.93	678.58
250	420	244	440	450	53.01	1060.29
300	520	250	520	500	76.34	1526.81
350	520	250	520	550	103.91	2078.16



SAILABLE FEATURES

- Corrosion Protection:
- High Accuracy
- Stable performance
- Multi output interface(4-20) mA
- No moving part
- No noise , High level of ant vibration
- No pressure loss

ADVANTAGES

- Electric power requirement can be low(24V) with pulse DC type.
- These meter can be used as unidirectional meter.
- They are practically unaffected by variation in velocity, pressure& temp.
- They are capable of handling extremely low flow.
- No pressure head loss in this types of flow meter.

APPLICATIONS

For accurate measurement and stable measuring of conductive liquid in closed conduit and slurry's Instantaneous flow, total flow, batching mode, such as sewage water, life water, raw water, sea water, hot water, air conditioning water.

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