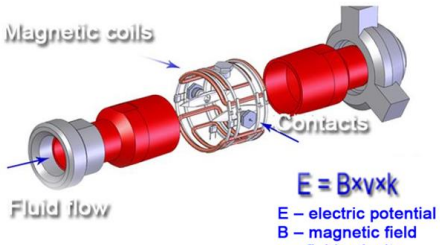
REM Electromagnetic Flowmeter

Principle of Operation

This is based on the measurement of electromotive force during the flow of electrically conducting fluid in a magnetic field. The flowmeter measure and display values of the fluid flow and volume with cumulative total on a computer and measuring unit BV-01 or an external computer (laptop or tablet)



Faraday's Law

Specifications

Model	Nominal Inside size, DN, mm, (inches)	Measured minimum volumetric flow rate, q_{min}, m^3/h, gal(US)/min	Measured transient volumetric flow rate, q_t, m^3/h, gal(US)/min	Measured maximum volumetric flow rate, q_{max}, m^3/h, gal(US)/min	Weight, kg, (lb)	Dimensions, mm, (inches)	Maximum pressure bar, (psi)	Error limits within the flow range, %	
								From Q_{max} to Q_t	From Q_t to Q_{min}
REM 2	50 (1.97)	1, (4.4)	4, (17.6)	90, (396.3)			1,050 (15,000)	± 1	± 3
REM 3	75 (2.95)	2, (8.8)	8, (35.2)	180, (792.5)	30 (16.14)	630 X 200 X 270 (24.8 X 7.9 X 10.6)	1,050 (15,000)	± 1	± 3

Ambient temperature, ^0C	minus 40 to plus 50
Relative air humidity, %	up to 95 at 35^0C
Atmospheric pressure, KPa (psi)	80 to 106.7 (11.6 to 15.5)
Intensity of the magnetic field with a frequency of 50 Hz A/m	Up to 40
Parameters of the measured medium	
Specific electrical conductance, S/m	0.001 to 10
Temperature, ^0C	2 to 80
Pressure, MPa, (psi)	0.1 to 40 (optionally to 70) 14.5 to 5,800 (optionally to 10,152)
Power	12 / 24 VDC or 220 VAC

RPE ELECTROTECH LLC

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