

FMI300-Mini electromagnetic flow meters

Compact design saves installation space Corrosion resistance sensor technology All electronic design with no moving parts Automatic viscosity temperature compensation Pulse output/analog output is optional

Low pressure loss Strong anti-fouling ability Air traffic control measurement function Temperature resistance -40~100 degrees Celsius

According to Faraday's principle of electromagnetic induction when a conductor passes vertically through magnetic field B, it will induce a voltage. U In the measurement of the flowmeter, the moving conductor is a flowing

conducting medium, and the magnetic field B is emitted from the direction perpendicular to the flowing medium. The induced electromotive force U on the two electrodes E1 and E2 is directly proportional to the velocity V of the medium.

U=K×B×V×D K-meter constant D-Internal probe spacing

The induced electromotive force U is further processed and converted into a standard electrical signal for output or display

Specifications

Measuring Range	0.04120L/Min		
Nominal diameter	DN6DN15		
Applicable medium	Liquid with conductivity > 10us /cm		
Accuracy	±1% range, 0.5% range (optional)		
Repeatability	±0.2% range		
Proof pressure	16 bar		
Operating voltage	24 ± 10%Vdc		
Current consumption	80mA		
Electrical Protection	Reverse polarity protection, short circuit protection		
Output			
Pulse output	NPN output, pull up resistor 2K		
Analog output	4 20mA, current limit 26mA, load resistance < 250?		
Response Time	< 500ms		
Ambient Temperature	-2585		
Medium Temperature	-40100		
Materials			
Electrode	Stainless Steel 316TI		
Process Connection	Stainless Steel 316TI		
Measuring tube	PEEK		
Seal	EPDM		
HousingHousing	Stainless Steel 304		
Electrical Connection	M12×1 Plug		
Process Connection	G External thread, 25.4 chuck, 50.5 chuck		

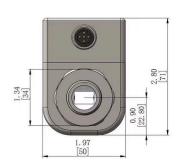


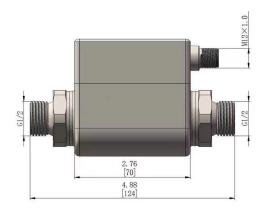
Applications

Circulating water detection Coolant monitoring Other conducting liquid monitoring



External thread connection

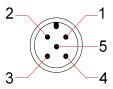






Wiring

Signal	Plug	Cable	
U+	1	Brown	
U-	3	Blue	
Pulse output	4	Black	
Analog output (voltage or current)	2	White	





Flow Range L/min

Optional procedure connection			Measuring range I/min	DN
G1/4	1/4" NPT	25.4Sanitary chuck	0.05-15	DN6
G1/2	1/2" NPT	25.4Sanitary chuck	0.2-50	DN10
G3/4	3/4" NPT	50.5Sanitary chuck	0.5-120	DN15

Model Number

OrderNO.	rderNO. Type Process connection G External thread/chuck		Measuring range L/Min	DN
FM3006	FMI300GM06	G1/4	0.04-15 L/min	6
FM3010	FMI300GM10	G1/2	0.1-50L/min	10
FM3015	FMI300GM15	G3/4	0.24-120L/min	15
FM3106	FMI300TR106	25.4 Sanitary chuck	0.04-15 L/min	6
FM3110	FMI300TR110	25.4 Sanitary chuck	0.1-50L/min	10
FM3115	FMI300TR215	50.5 Sanitary chuck	0.24-120L/min	15