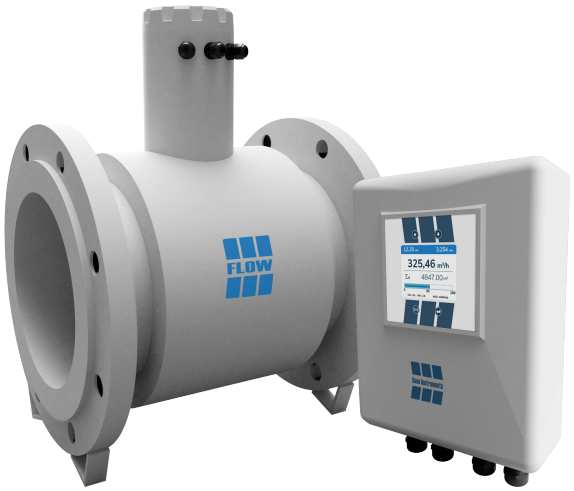
Bass Instruments
"the fluid control expert"

Partial-Filled Pipe Electromagnetic Flowmeter

EMDE-PF



LIQUID



OVERVIEW

Operation

EMDE-PF Partial-filled Pipe Electromagnetic Flow Meter is a transducer that measures fluid flow by the voltage induced across the liquid by its flow through a magnetic field.

Application

- Waste water, Rainwater
- Irrigation
- Sewage

Features

- Suitable for low flow rate conductibe liquid
- Measurement possible down to 10% filling of pipe
- High accuracy
- Durable stable
- Small blind zone 60mm
- Anti interference
- No pressure lose
- No need to close pipe installation
- Continuous measurement
- Can measure circle tube,square tube etc.

OPERATING DATA

Measuring Pipe Size	DN200-DN3000
Accuracy	2.5%
Structure Type	Remote Type
Pipe Shape	Can measure, Circle tube, Square tube etc.
Application Material	Cement, Carbon steel, SS304 pipe,etc

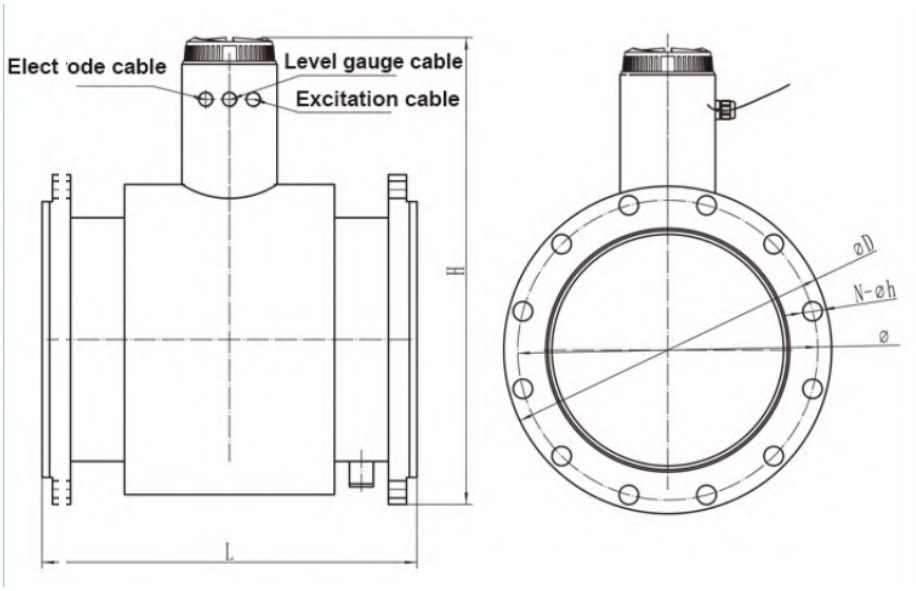
MEASURING RANGES

Flow Velocity Range	0.05-10 m/s

MATERIALS

Liner Material	Neoprene/Polyurethane
Electrode Material	SS316, TI, TA, HB, HC

TECHNICAL DRAWINGS AND DIMENSIONS



Diameter (mm)	Nominal Pressure	L (mm)	H	øA	øK	N-øh	Code
Dn200	0.6	400	494	320	280	8-ø18	201
DN250	0.6	450	561	375	335	12-ø18	251
DN300	0.6	500	623	440	395	12-ø22	301
DN350	0.6	550	671	490	445	12-ø22	351
DN400	0.6	600	708	540	495	16-ø22	401
DN450	0.6	600	778	595	550	16-ø22	451
DN500	0.6	600	828	645	600	20-ø22	501
DN600	0.6	600	934	755	705	20-ø26	601
DN700	0.6	700	1041	860	810	24-ø26	701
DN800	0.6	800	1149	975	920	24-ø30	801
DN900	0.6	900	1249	1075	1020	24-ø30	901
DN1000	0.6	1000	1359	1175	1120	24-ø30	102

*With DIN Flange

CONNECTION

Standart	Flanged (PN6, PN10, PN16)

ELECTRICAL DATA

Output	4...20 mA and pulse 4-20 mA and RS232C 4-20 mA and RS485C 4-20 mA and HART
Power Supply	24V DC, 12 V, 220VAC 50 Hz
Enclosure	
Converter	IP65
Flow Sensor	IP65 (Standard) IP68 on request

COMMUNICATION

Protocol	Modbus-RTU RS232/RS485 HART

DISPLAY

- Big screen LCD backlight display
- Multiple data display Flow rate, Water level, Accumulated flow, Flow velecity etc.
- Many varieties of units for options
- Multiple signal outputs

ORDERING

EMDE-PF									Partial-Filled Pipe Electromagnetic Flowmeter
Diameter	XXX								Please see“The Technical Drawing Table” for code
Nominal Pressure		A							0,6 MPa
		B							1.0 MPa
		C							1.6 MPa
Connection Method			1						Flanged
Liner				A					Neoprene
				B					Polyurethane
Electrode Materials					A				AISI 316L
					B				Hastelloy B
					C				Hastelloy C
					D				Titanium
					E				Tantalum
					F				Stainless steel coated with tungsten carbide
Structure Form						1			Remote type
						2			Remote type Diving type
Power Supply							E		220 VAC 50 Hz
							G		24 VDC
							F		12 VDC
Output								A	Volume flow 4-20 mA/ pulse
								B	Volume flow 4-20 mA/ RS232C
								C	Volume flow 4-20 mA/ RS485C
								D	Volume flow HART protocol
Converter Form									A Square

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