

# ELECTROMAGNETIC FLOWMETER

**HMF 2110**



## ● Application



*Water Industry*



*Electric Power Industry*



*HVAC Industry*



*Processing Industry*



*Chemical Industry*

## ● System Information

The electromagnetic flow meter HMF 2110 series is the most common and highly accurate flow measurement device that can be universally used in various measurement fields.

Since there is no driving part like a propeller, no trouble is caused due to pressure loss, and the durability is excellent.

In addition, since the installation is simple with the flange type, even a beginner can easily install it through simple training.

The sensor measures the flow rate by direct contact with the fluid,, thus a more reliable flow rate value can be obtained, and the reproducibility is also excellent. If you are looking for a flowmeter that can be used with confidence, choose the HMF 2110 series without hesitation.

## ● Various Types of Sensors



## Specifications

Items	Specifications
Sensor fitting	Flange mounting (JIS, DIN, ANSI, etc.)
Accuracy	± 0.2 % (Flow rate: 0.1 m/s or more)
Flow rate	0.05 m/s ~ 10 m/s (Flow rate by diameter)
Measuring pipe diameter	15 mm ~ 2,000 mm
Max working pressure	1 Mpa ~ 4 Mpa
Measurable fluid	Water, sewage, wastewater, chemicals, etc. (Conductivity: 5us/cm or more)
Power	110 ~ 220 V AC / 60 Hz
Operation temperature	Sensors: General -40 ~ 70 °C / High temp. -20 ~ 100 °C Operation unit: -18 ~ 60 °C
Display	Size: LCD Display 100*55, 3-Line, 16 Characters Instantaneous flow rate: 4 digit Accumulated flow rate: 9 digit / Pressure: 4 digit
Flow indications	Unit (m3, L, etc.) and Direction (Forward/Reverse (-))
Electrode	Hastelloy C
Liner	NBR, Hard Rubber, EPDM, PTFE
Flange	Carbon steel
Measurement frequency	1.875 ~ 12.5 Hz
Sensor cable length	100 m
Output signal	4~20 mA, Integrated pulse (Active/Passive - Max 10 kHz), Relay pulse (MaxLoad 24 V DC / 1A)
Communication & Memory	RS-232, RS-485 Modbus 2G internal memory: date, time, instantaneous flow rate, accumulated flow rate, pressure Memory interval: 5 sec ~ 24 hr
Protection rating	Sensor unit: IP 68 / Operation unit: IP 65
Self-diagnosis function	Alarm display when empty pipe or self-diagnosis error

## Key Features

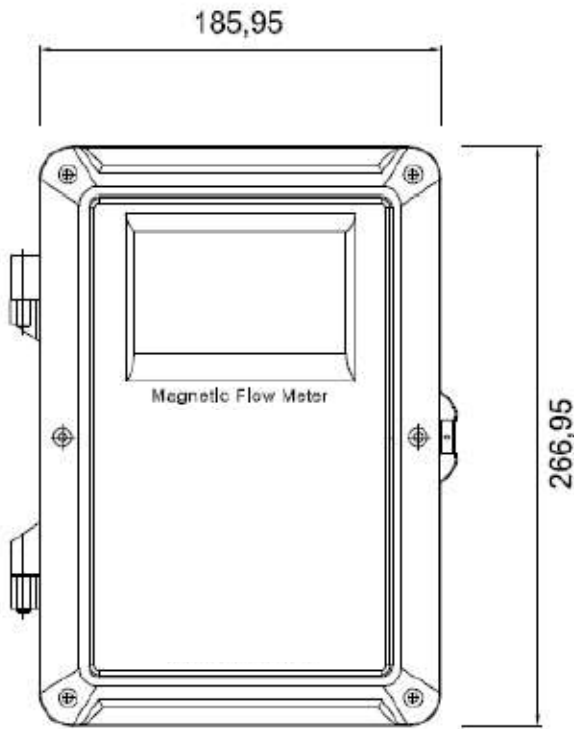
*Quick Start*

*Self-diagnostic*

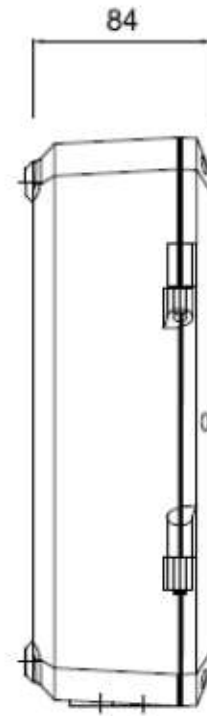
*Easy  
Maintenance*

● Outline Dimension

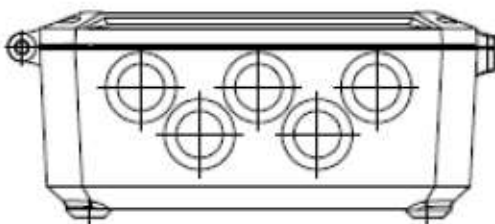
*Transmitter*



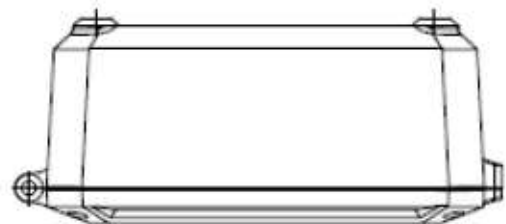
*Front View*



*Side View*



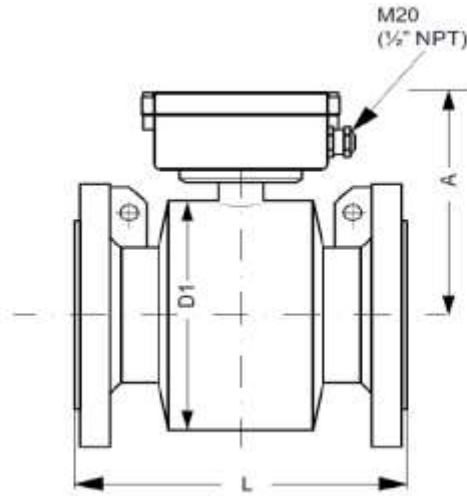
*Bottom View*



*Top View*

● Outline Dimension

*Transducer*

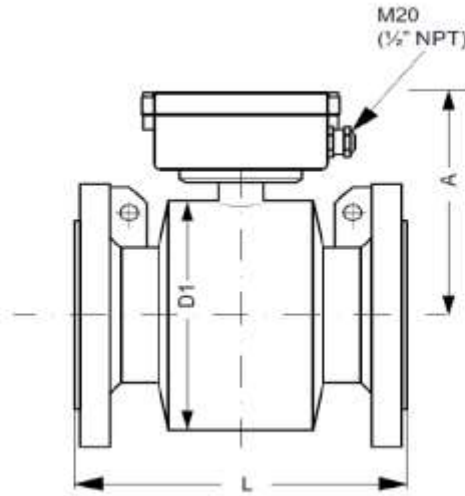


**Ebonite / Hard Rubber**

Nominal Size		A		D1		L	
[mm]	[inch]	[mm]	[inch]	[mm]	[inch]	[mm]	[inch]
15	½	-	-	-	-	200	7.9
25	1	187	7.4	104	4.09	200	7.9
40	1½	197	7.8	124	4.88	200	7.9
50	2	205	8.1	139	5.47	200	7.9
65	2½	212	8.3	154	6.06	200	7.9
80	3	222	8.7	174	6.85	200	7.9
100	4	242	9.5	214	8.43	250	9.8
125	5	255	10.0	239	9.41	250	9.8
150	6	276	10.9	282	11.1	300	11.8
200	8	304	12.0	338	13.31	350	13.8
250	10	332	13.1	393	15.47	450	17.7
300	12	357	14.1	444	17.48	500	19.7
350	14	362	14.3	451	17.76	550	21.7
400	16	387	15.2	502	19.76	600	23.6
450	18	418	16.5	563	22.16	600	23.6
500	20	443	17.4	614	24.17	600	23.6

● Outline Dimension

**Transducer**



**Ebonite / Hard Rubber**

Nominal Size		A		D1		L	
[mm]	[inch]	[mm]	[inch]	[mm]	[inch]	[mm]	[inch]
600	24	494	19.4	715	28.15	600	23.6
700	28	544	21.4	816	32.13	700	27.6
750	30	571	22.5	869	34.21	750	29.5
800	32	606	23.9	927	36.5	800	31.5
900	36	653	25.7	1032	40.63	900	35.4
1000	40	704	27.7	1136	44.72	1000	39.4
	42	704	27.7	1136	44.72	1000	39.4
	44	755	29.7	1238	48.74	1100	43.3
1200	48	810	31.9	1348	53.07	1200	47.2
1400	54	925	36.4	1574	65.94	1400	55.1
1500	60	972	38.2	1672	65.83	1500	59.1
1600	66	1025	40.4	1774	75.39	1600	63
1800	72	1123	44.2	1974	77.72	1800	70.9
2000	78	1223	48.1	2174	85.59	2000	78.7

※ The above sizes are based on typical sensors, and exact size information may vary depending on the specifications of the each use.

# FLOWMETERS ALL YOU NEED

Ultrasonic flowmeter • Electromagnetic flowmeter • Electronic water meter •  
Portable watermeter test system • Energy calculator • Flow computer system

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