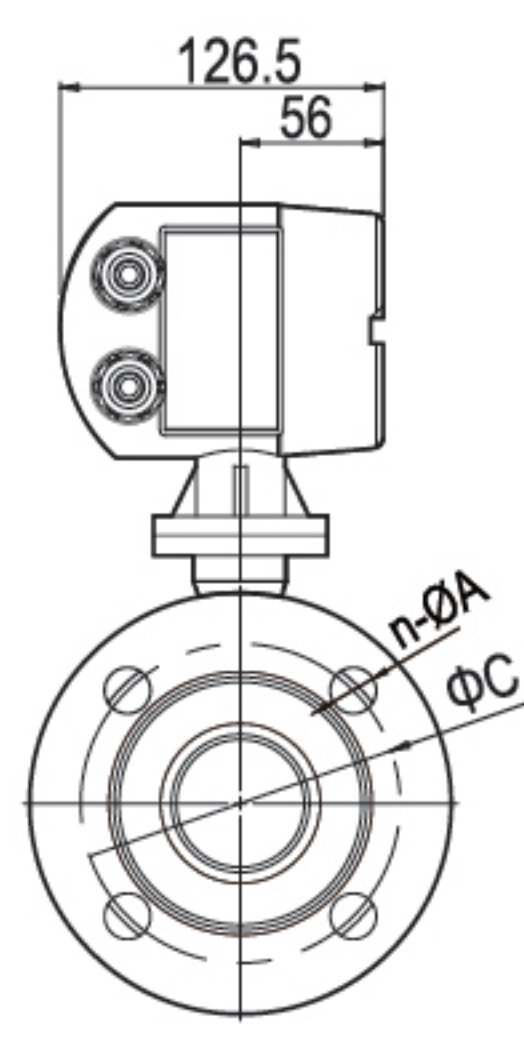
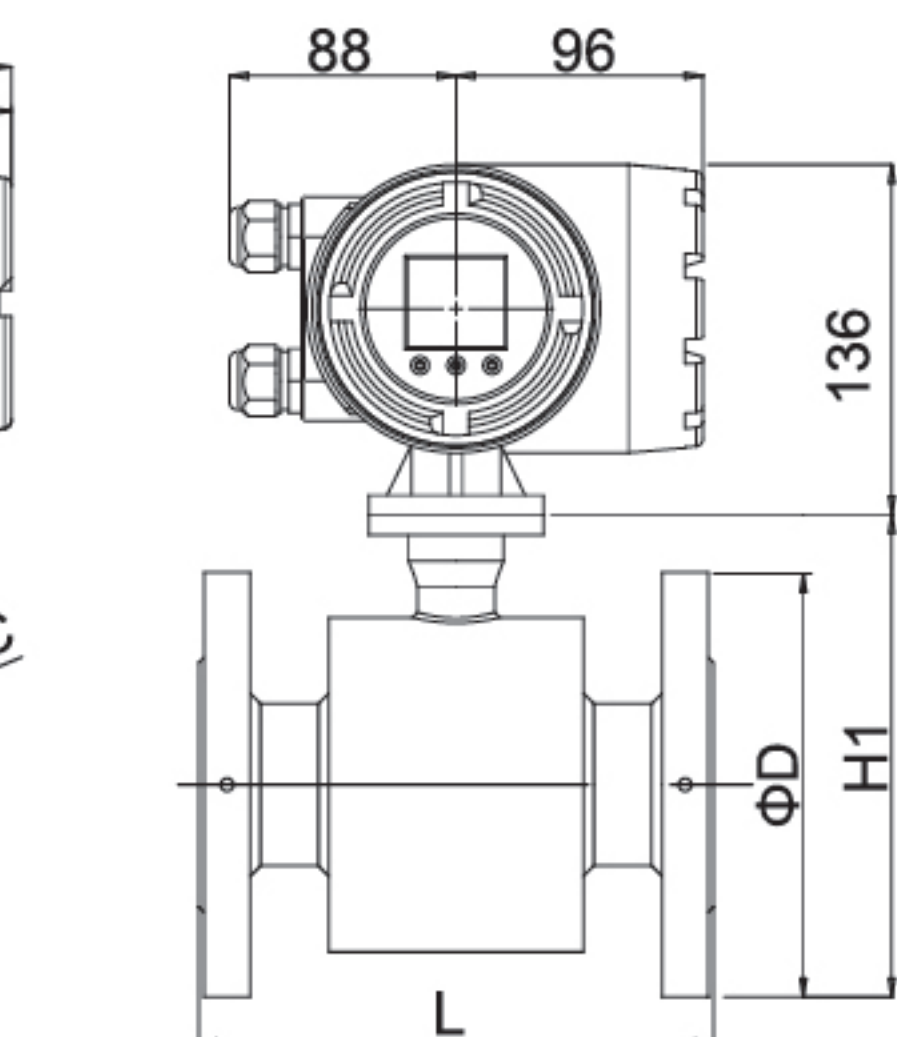
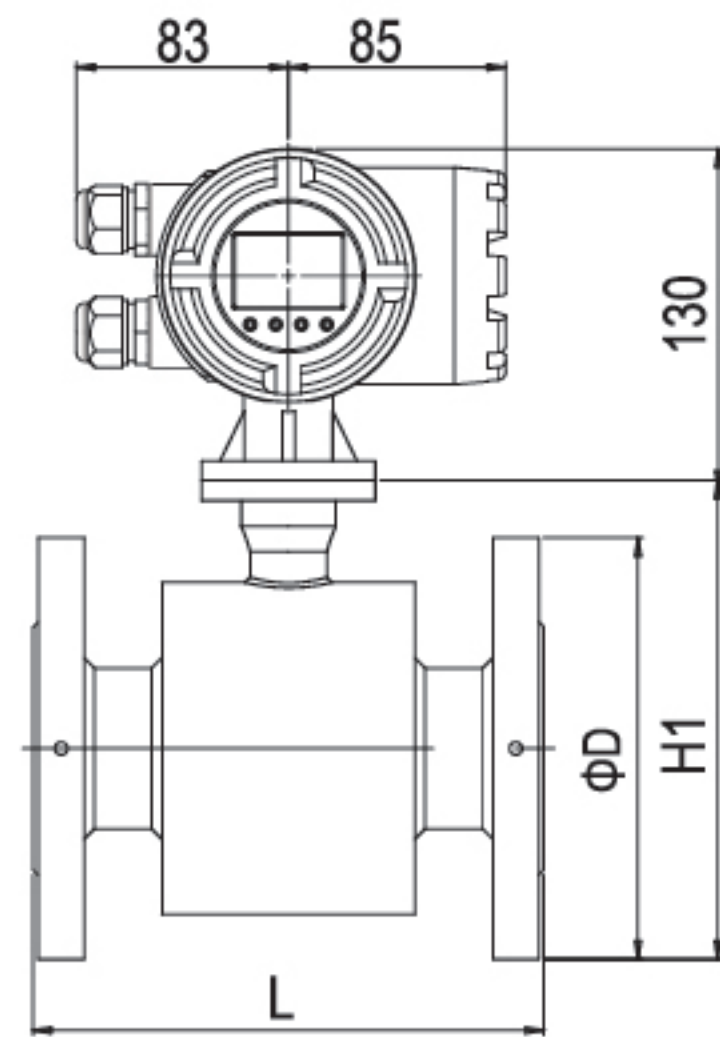


# The Series KF700-FA Flanged Electromagnetic Flowmeter

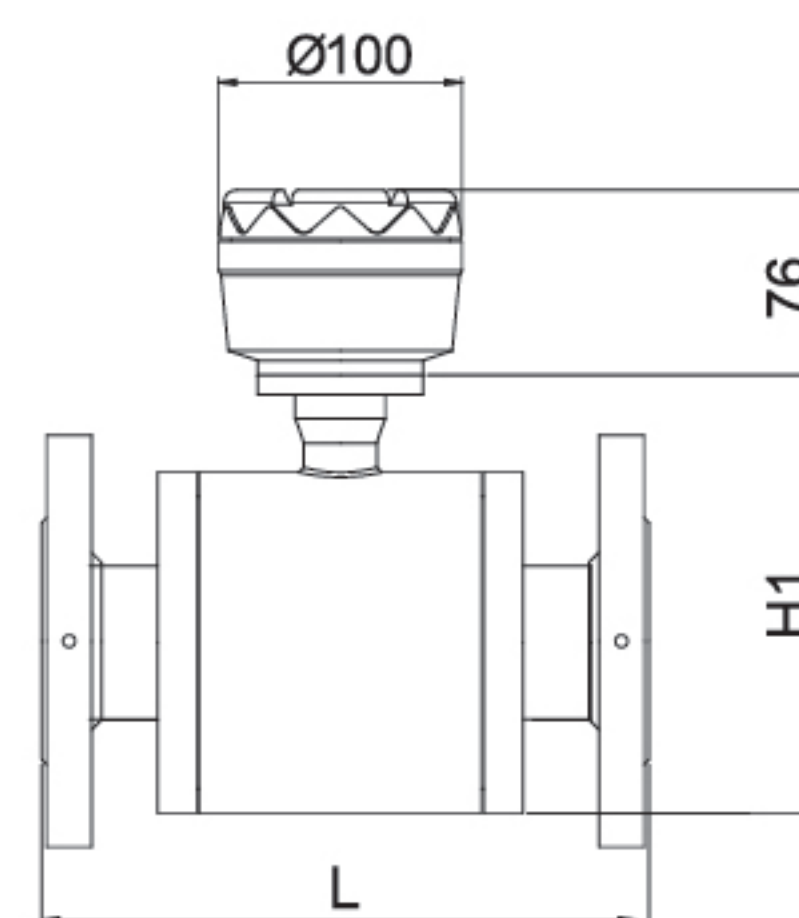
From 10mm to 2000mm, accuracy up to ±0.2%. Ultra-low conductivity liquids as 1µs/cm



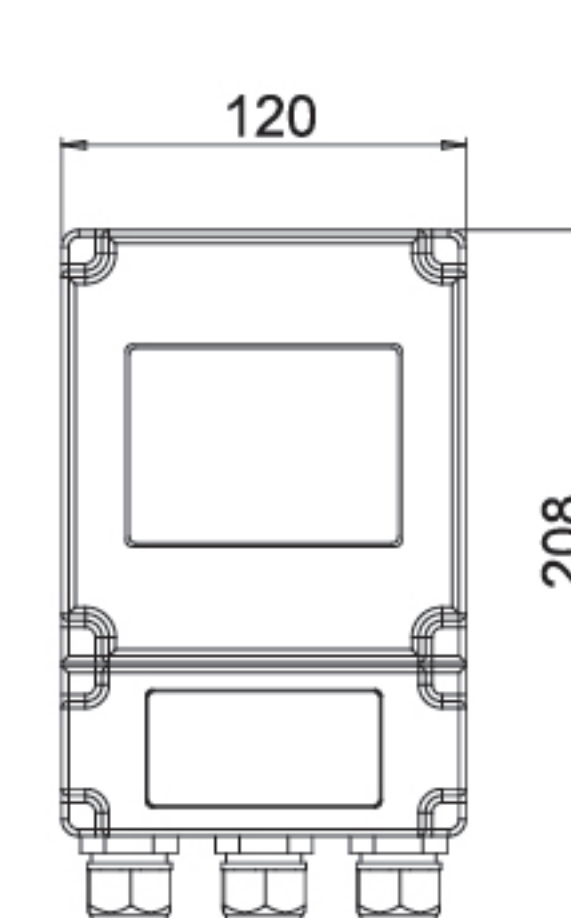
MF710 (mm)



MF720 (mm)



MF730 (mm)



The Series KF700-FA Flanged Electromagnetic Flowmeter is designed for flow measurement in pipelines with diameters from DN10 to DN2000. It is particularly suitable for water supply, drainage, and sewage treatment in municipal engineering. It can not only measure the flow of ordinary conductive liquids but also that of corrosive liquids such as strong acids and alkalis, as well as the volumetric flow of homogeneous liquid-solid two-phase suspended liquids like mud, ore pulp, and paper pulp. Adopting electromagnetic measurement technology, it has no moving parts, enabling accurate measurement even in applications where liquids contain impurities, with extremely low post-operation maintenance workload. Its specially designed electrodes can reduce dirt accumulation, and it has minimal requirements for straight pipe sections at the front and rear. This series of products can measure liquids with a conductivity as low as 1µs/cm. All models are equipped with indicators for instantaneous flow and totalized flow. They come with 4-20mA output and pulse output, which are used in applications such as remote display or control, data acquisition, and remote measurement.

## FEATURES

- Can measure pipelines with a diameter of up to 2 meters
- Capable of measuring ultra-low conductivity liquids (as low as 1µs/cm)
- Customizable to achieve an accuracy of up to ±0.2%
- On-site configuration via the display screen to meet application requirements
- Ensures accurate measurement even when temperature, density, or viscosity changes, thereby improving system efficiency;
- Features long service life, low cost, and minimal maintenance needs
- No moving parts, avoiding wear, tear, or damage
- Electrode design with anti-fouling and anti-damage properties
- Adopts an unobstructed flow measurement method, resulting in no pressure loss

## APPLICATIONS

- Petrochemical Industry
- Metallurgical Industry
- Textile Industry
- Pharmaceutical Industry
- Semiconductor Industry
- Food and Beverage Industry
- Paper and Pulp
- Power Plants
- Urban Water Supply and Drainage
- Environmental Protection
- Shipbuilding Industry

## SPECIFICATIONS

<b>Pipe Size</b>	From DN10 to DN2000
<b>Electrode Material</b>	316L; optional: Hastelloy Hc, Hastelloy Hb, titanium alloy (Ti), platinum alloy (Pt), tantalum alloy (Ta)
<b>Liner Material</b>	Optional liners: PTFE, F46, PFA, rubber, polyurethane, ceramics, hard rubber
<b>Service</b>	Conductive liquids compatible with the selected material
<b>Medium Conductivity Accuracy</b>	>20µs/cm; optional low-conductivity measurement down to 1µs/cm
<b>Flow Velocity Range</b>	0.3 m/s - 10 m/s
<b>Temperature Rating</b>	Neoprene rubber liner up to 80°C; PTFE liner up to 130°C; Polyurethane liner up to 70°C; F46 liner up to 150°C; PFA liner up to 150°C; Ceramic liner up to 150°C, Hard Rubber liner up to 70°C
<b>Pressure Rating</b>	PN6, PN10, PN16, PN40 (varies by model)
<b>Enclosure Rating</b>	IP65, IP67, IP68 (varies by model)
<b>Output Signal</b>	4-20mA + pulse + RS485; optional with HART protocol
<b>Power Requirements</b>	Optional: 85-265V AC 50Hz, 85-265V AC 60Hz, or 18-36V DC
<b>Electrical Connections</b>	M20*1.5
<b>Process Connections</b>	Flanges: DIN2501, ANSI, JIS

# The Series KF700-FA Flanged Electromagnetic Flowmeter

From 10mm to 2000mm, accuracy up to ±0.2%. Ultra-low conductivity liquids as 1µs/cm

Model Chart												
Example	KF700-FA	-A1	-2	-A	-A	-25	-L	-3	-2	-1	-A	-1
Series	KF700-FA											Flanged Electromagnetic Flowmeter
Converter Type		A1										Integrated Type with MF710 Converter
		A2										Integrated Type with MF720 Converter
		B3										Remote Type with MF730 Converter
Flange Standard			1									DIN Standard PN6
			2									DIN Standard PN10
			3									DIN Standard PN16
			4									DIN Standard PN25
			5									DIN Standard PN40
			6									American Standard (ANSI) 150
			7									Japanese Standard (JIS) 10K
			8									Other Standard
Flange Material				A								A3 Carbon Steel
				B								304 Stainless Steel
				C								316 Stainless Steel
Body Material					A							A3 Carbon Steel
					B							304 Stainless Steel
					C							316 Stainless Steel
Pipe Size						10						DN10; Calibrated Range: 0.08m³/h - 1.6m³/h; PN40; LxDxH1: 150x90x130
						15						DN15; Calibrated Range: 0.2m³/h - 4m³/h; PN40; LxDxH1: 150x95x132.5
						20						DN20; Calibrated Range: 0.3m³/h - 6m³/h; PN40; LxDxH1: 150x105x137.5
						25						DN25; Calibrated Range: 0.5m³/h - 10m³/h; PN40; LxDxH1: 150x115x145
						32						DN32; Calibrated Range: 0.8m³/h - 16m³/h; PN40; LxDxH1: 150x140x162.5
						40						DN40; Calibrated Range: 1.2m³/h - 25m³/h; PN40; LxDxH1: 150x150x172.5
						50						DN50; Calibrated Range: 2m³/h - 40m³/h; PN40; LxDxH1: 200x165x187.5
						65						DN65; Calibrated Range: 3.5m³/h - 60m³/h; PN40; LxDxH1: 200x185x202.5
						80						DN80; Calibrated Range: 5m³/h - 100m³/h; PN40; LxDxH1: 200x200x220
						100						DN100; Calibrated Range: 8m³/h - 160m³/h; PN16; LxDxH1: 250x220x230
						125						DN125; Calibrated Range: 12m³/h - 250m³/h; PN16; LxDxH1: 250x250x270
						150						DN150; Calibrated Range: 18m³/h - 400m³/h; PN16; LxDxH1: 300x285x302.5
						200						DN200; Calibrated Range: 30m³/h - 600m³/h; PN10; LxDxH1: 350x340x352.5
						250						DN250; Calibrated Range: 50m³/h - 800m³/h; PN10; LxDxH1: 400x395x407.5
						300						DN300; Calibrated Range: 70m³/h - 1200m³/h; PN10; LxDxH1: 500x445x460
						350						DN350; Calibrated Range: 100m³/h - 1600m³/h; PN10; LxDxH1: 500x505x517.5
						400						DN400; Calibrated Range: 120m³/h - 2000m³/h; PN10; LxDxH1: 600x565x572.5
					450						DN450; Calibrated Range: 160m³/h - 2500m³/h; PN10; LxDxH1: 600x615x622.5	
					500						DN500; Calibrated Range: 200m³/h - 3000m³/h; PN10; LxDxH1: 600x670x675	
					600						DN600; Calibrated Range: 300m³/h - 4000m³/h; PN10; LxDxH1: 600x780x745	
					700						DN700; Calibrated Range: 400m³/h - 5000m³/h; PN10; LxDxH1: 700x895x892	
					800						DN800; Calibrated Range: 500m³/h - 6000m³/h; PN10; LxDxH1: 800x1015x1002.5	
					900						DN900; Calibrated Range: 650m³/h - 8000m³/h; PN10; LxDxH1: 900x1115x1102.5	
					1000						DN1000; Calibrated Range: 800m³/h - 10000m³/h; PN6; LxDxH1: 1000x1175x1182.5	
					1200						DN1200; Calibrated Range: 1200m³/h - 16000m³/h; PN6; LxDxH1: 1200x1405x1397.5	
					1400						DN1400; Calibrated Range: 1500m³/h - 20000m³/h; PN6; LxDxH1: 1400x1630x1610	
					1600						DN1600; Calibrated Range: 2000m³/h - 30000m³/h; PN6; LxDxH1: 1600x1830x1810	
					1800						DN1800; Calibrated Range: 2500m³/h - 40000m³/h; PN6; LxDxH1: 1800x2045x2017.5	
					2000						DN2000; Calibrated Range: 3000m³/h - 50000m³/h; PN6; LxDxH1: 2000x2265x2227.5	
Electrode Material							L					316L Stainless Steel
							C					Hastelloy Hc
							B					Hastelloy Hb
							T					Titanium (Ti)
							P					Platinum (Pt)
							A					Tantalum (Ta)
Liner Material								1				Neoprene Rubber (DN50-DN2000), Temperature Resistance up to 80°C
								2				Polytetrafluoroethylene (PTFE) (DN25-DN2000), Temperature Resistance up to 130°C
								3				Polyurethane (DN25-DN300), Temperature Resistance up to 70°C
								4				F46 (DN10-DN300), Temperature Resistance up to 150°C
								5				PFA (DN10-DN300), Temperature Resistance up to 150°C
								6				Ceramics, Temperature Resistance up to 150°C
								7				Hard Rubber (DN50-DN1800), Temperature Resistance up to 70°C
Enclosure Rating									1			IP65
									2			IP67
									3			IP68 (for Remote Type)
Output Signal										2		4-20mA + Pulse + RS485
										3		4-20mA + Pulse + HART (applicable only to MF720, 730)
Power Requirements											A1	85 - 265V AC 50Hz
											A2	85 - 265V AC 60Hz
											B	18 - 36V DC
Grounding Type												1 None, suitable for metal pipelines
												2 Three-electrode (economic grounding option), suitable for plastic pipelines
												3 Grounding Ring, suitable for occasions with strict requirements on accuracy and stability
Note	For pipe size DN10, DN15, and DN20, when the three-electrode grounding is adopted, the dimension L is 200mm											