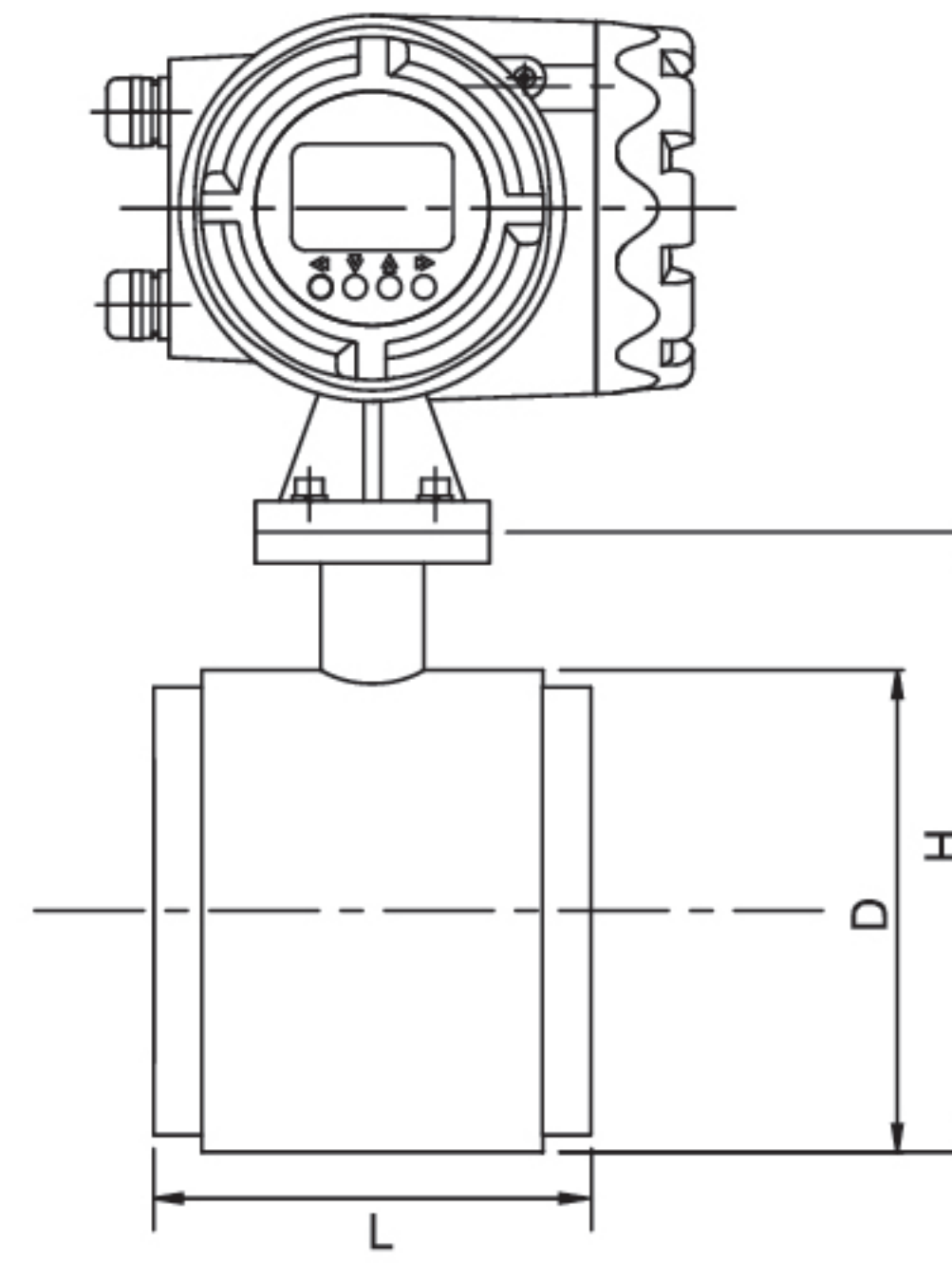


The Series KF700-JA Wafer Type Electromagnetic Flowmeter

From 25mm to 150mm, accuracy up to ±0.2%, ultra-low conductivity liquids as 1µs/cm



The Series KF700-JA Wafer Type Electromagnetic Flowmeter is secured to the pipeline by its own or an external clamping device, fitting tightly without loosening to ensure stable measurement. 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

- Wafer type connection method facilitates easy installation.
- 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
- New energy industry
- Shipbuilding Industry

| SPECIFICATIONS | |
|-------------------------------|---|
| Pipe Size | From DN25 to DN150 |
| Electrode Material | 316L; optional: Hastelloy Hc, Hastelloy Hb, titanium alloy (Ti), platinum alloy (Pt), tantalum alloy (Ta) |
| Liner Material | Optional liners: PTFE, F46, PFA, Ceramic |
| Service | Conductive liquids compatible with the selected material |
| Medium Conductivity | >20µs/cm; optional low-conductivity measurement down to 1µs/cm |
| Accuracy | Within the range: ±0.5% RD; ±0.2% RD (optional) |
| Flow Velocity Range | 0.3m/s - 10m/s |
| Temperature Rating | PTFE liner up to 130°C; F46 liner up to 150°C; PFA liner up to 150°C; Ceramic liner up to 150°C |
| Pressure Rating | PN10, PN16 (varies by model) |
| Enclosure Rating | IP65, IP67, IP68 (varies by model) |
| Output Signal | 4-20mA + pulse + RS485; optional with HART protocol |
| Power Requirements | Optional: 85-265V AC 50Hz, 85-265V AC 60Hz, or 18-36V DC |
| Electrical Connections | M20*1.5 |
| Process Connections | Wafer Type: DIN2501, ANSI, JIS |

| Model Chart | | | | | | | | | | | |
|---------------------------|----------|-----|-----|----|----|----|----|----|----|--|---|
| Example | KF700-JA | -A1 | -25 | -1 | -1 | -L | -3 | -2 | -1 | -A1 | -1 |
| Series | KF700-JA | | | | | | | | | | Wafer Type Electromagnetic Flowmeter |
| Converter Type | | A1 | | | | | | | | | Integrated Type with MF710 Converter |
| | | A2 | | | | | | | | | Integrated Type with MF720 Converter |
| | | B3 | | | | | | | | | Remote Type with MF730 Converter |
| Pipe Size | | | 25 | | | | | | | | DN25, 0.5m³/h - 10m³/h; L x D x H = 90x72x112mm |
| | | | 32 | | | | | | | | DN32, 0.8m³/h - 16m³/h; L x D x H = 90x82x122mm |
| | | | 40 | | | | | | | | DN40, 1.2m³/h - 25m³/h; L x D x H = 90x92x132mm |
| | | | 50 | | | | | | | | DN50, 2m³/h - 40m³/h; L x D x H = 125x108x148mm |
| | | | 65 | | | | | | | | DN65, 3.5m³/h - 60m³/h; L x D x H = 125x128x168mm |
| | | | 80 | | | | | | | | DN80, 5m³/h - 100m³/h; L x D x H = 130x142x182mm |
| | | | 100 | | | | | | | | DN100, 8m³/h - 160m³/h; L x D x H = 160x162x202mm |
| | | | 125 | | | | | | | | DN125, 12m³/h - 250m³/h; L x D x H = 170x192x232mm |
| | | 150 | | | | | | | | DN150, 18m³/h - 400m³/h; L x D x H = 185x219x259mm | |
| Flange Standard | | | | 1 | | | | | | | DIN Standard |
| | | | | 2 | | | | | | | American Standard (ANSI) |
| | | | | 3 | | | | | | | Japanese Standard (JIS) |
| Body Material | | | | | 1 | | | | | | 304 Stainless Steel |
| | | | | | 2 | | | | | | 316L Stainless Steel |
| Electrode Material | | | | | | L | | | | | 316L Stainless Steel |
| | | | | | | C | | | | | Hastelloy Hc |
| | | | | | | B | | | | | Hastelloy Hb |
| | | | | | | T | | | | | Titanium (Ti) |
| | | | | | | P | | | | | Platinum (Pt) |
| | | | | | | A | | | | | Tantalum (Ta) |
| Liner Material | | | | | | | 1 | | | | PTFE (DN25-DN200), Temperature Resistance up to 130°C |
| | | | | | | | 2 | | | | F46 (DN10-DN300), Temperature Resistance up to 150°C |
| | | | | | | | 3 | | | | PFA (DN10-DN300), Temperature Resistance up to 150°C |
| | | | | | | | 6 | | | | Ceramic, Temperature Resistance up to 150°C |
| Enclosure Rating | | | | | | | | 1 | | | IP65 |
| | | | | | | | | 2 | | | IP67 |
| | | | | | | | | 3 | | | IP68 (for Remote Type) |
| Output Signal | | | | | | | | | 1 | | 4-20mA + Pulse |
| | | | | | | | | | 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 | Three-electrode (economic grounding option), suitable for plastic pipelines |
| | | | | | | | | | | 2 | Grounding Ring, suitable for occasions with strict requirements on accuracy and stability |