

## FME200 SERIES INSERTION ELECTROMAGNETIC FLOWMETER

### FEATURES

- ◎ Lower initial investment and installation cost compared to traditional in-line flowmeters.
- ◎ Hot-tappable design allows installation or removal without shutting down the system.
- ◎ Easy to install on existing pipelines, ideal for retrofitting flow monitoring points.
- ◎ Measurement accuracy is unaffected by temperature, pressure, density, viscosity, or conductivity ( $\geq 30 \mu\text{S/cm}$ ).
- ◎ Minimal pressure loss and extremely low energy consumption.
- ◎ Especially suitable for medium and large-diameter pipe flow measurement and control.
- ◎ Uses advanced low-frequency square wave excitation for stable zero point and strong anti-interference performance.
- ◎ Wide measuring range; flow velocity can be set from 0.5 m/s to 10 m/s with a linear output signal.



### INTRODUCTION

The FME200 is a compact flowmeter consisting of an insertion sensor and a smart converter. It accurately measures the volumetric flow of conductive fluids in closed pipelines (DN100–DN2000) with conductivity  $\geq 30 \mu\text{S/cm}$ . Its design ensures stable performance regardless of pressure, temperature, or viscosity changes and handles fluids with slight solids or air bubbles. Ideal for industries such as water treatment, chemical, steel, food, and pharmaceuticals, it offers functions like real-time flow display, totalization, signal output, and remote data transmission.

### SPECIFICATIONS

|                                |                                                                      |
|--------------------------------|----------------------------------------------------------------------|
| Diameter(mm)                   | DN200~DN2000                                                         |
| Flow speed range               | 0~10m/s                                                              |
| Accuracy                       | V>1m/s: $\pm 1.5\%$<br>0.1m/s<V<1m/s: $\pm 2.5\%$                    |
| Nominal Pressure               | 1.0MPa, 1.6MPa                                                       |
| Conductivity                   | $\geq 30 \mu\text{S/cm}$                                             |
| Power supply                   | 110V/220VAC(100–240VAC),24VDC                                        |
| Insertion probe shell material | Polyvinylidene fluoride PVDF                                         |
| Electrode form                 | Standard form, scraper form, detachable form and grounding electrode |
| Electrode structure            | 2 electrode structures                                               |



## ORDERING NOTE

1. For DN200–DN700, the probe length (L) is 400 mm, with an insertion depth of 1/10 of the nominal diameter (D).  
For DN800–DN1200, the probe length (L) is 450 mm, with an insertion depth of 1/10 of the nominal diameter (D).  
For DN1300–DN2000, the probe length (L) is 600 mm, with an insertion depth of 1/10 of the nominal diameter (D).
2. When selecting the nominal diameter, the fluid velocity should be considered. The recommended flow velocity range is 1 m/s to 5 m/s.