



Introduction

Insertion Electromagnetic Flow Meter is hallmarked by its high performance and reliability based on successful, field-proven technology. Suitable for measuring the large pipe of diameter DN 300~DN 3000 mm, Installation can be divided into an online installation type of the cut-off valve and water control installation type without stop valves.

Features

- Medium temperature can be $-20^{\circ}\text{C}\sim 80^{\circ}\text{C}$.
- Measure forward and reverse direction flows.
- Easy to install and it can be installed without shutting down the process.
- Dual frequency excitation and stable zero point.
- Precision coil winding technology, makes magnetic field more uniform
- High protection grade, IP65, IP68.
- No moving parts, no pressure loss

Applications

- Chemical
- Medicine
- Beverage
- Iron and steel
- Water supply
- Electric power
- Water treatment

Flow meter type

- **Remote type** with 10 mtr. Cable



Specifications

| | |
|------------------------|---|
| Medium | Water, Sewage water , Acid, Alkali etc. |
| Diameter | DN 300 ~ DN 3000mm |
| Accuracy | ± 2.5% |
| Medium temp. | -20 ~ 150°C |
| Nominal pressure | 1.6Mpa |
| Flow rate | 0.5 ~ 6m/s |
| Straight pipe required | Upstream ≥15DN, downstream ≥10DN |
| Electrode | SS 316L, Hastelloy C (HC), Tantalum (Ta) |
| Installation | With a ball valve Thread or Flange |
| Body material | Stainless steel |
| Power supply | 220VAC / 24VDC / Lithium battery (optional) |
| Signal output | Pulse and 4~ 20mA |
| Communication | RS485, GPRS |
| Protection proof | IP 68 (suitable for remote type) |

Main Performances of the Electrode Materials

| Electrode Material | Application |
|--------------------|---|
| SS 316L | Applicable in Water, Sewage and Low corrosive medium |
| Hastelloy C | Be resistant to oxidable acid such as nitric acid, mixed acid as well as oxidable salt such as Fe ⁺⁺⁺ , Cu ⁺⁺ and sea water |
| Tantalum | Having strong resistance to corrosive mediums that is similar with glass. Almost applicable in all chemicals mediums except for hydrofluoric acid, oleum and alkali |

Model selection

| Series | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|--------|-----------|-----------|------------|--------------|--------|---------------|------|
| NIEFM | Line size | Electrode | Connection | Power Supply | Output | Communication | Code |

| | | | |
|---|---------------|----|--------------------------|
| 1 | Line Size | DN | 300 to 3000 |
| 2 | Electrode | A | SS 316L |
| | | B | Hastelloy C |
| | | C | Tantalum |
| 3 | Connection | A | Flange |
| | | B | Thread |
| 4 | Power Supply | A | SMPS 220 V AC to 24 V DC |
| | | B | 24 V DC |
| | | C | Lithium Battery |
| 5 | Output | A | 4 – 20 mA |
| | | B | Pulse |
| 6 | Communication | A | RS 485 |
| | | B | GPRS/GSM |
| 7 | Code | | |



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