

# ELECTROMAGNETIC FLOWMETER MODEL EFM61



The main function of the EFM61 electromagnetic flowmeter is to measure the flow of conductive fluid. It uses the principle of electromagnetic induction to calculate the flow rate of a conducting fluid by measuring the electromotive force induced by an applied magnetic field. Electromagnetic flowmeters can measure positive and negative flow, display instantaneous flow and cumulative flow, and are suitable for a variety of conductive media, such as liquids and liquid-solid two-phase suspension liquids.

## Features

- High accuracy, Linearity and Stability.
- Good reliability and Anti-interference performance.
- Good pressure sealing and High intelligence.
- No pressure loss, lower requirements for straight pipe section.
- Good corrosion resistance and wear resistance.
- The converter can be in the same shape or separate form with the sensor.
- Two-way measurement system, which can measure forward flow and reverse flow.
- Special production process and high quality materials are adopted to ensure that the performance of products remains stable for a long time.

## Technical parameter

### General

#### Basic information

Latus rectum	10-3000mm
Comprehensive precision	0.5
Nominal pressure	1.6MPa, 1.0MPa, 0.6MPa
Lining material	Neoprene rubber, polytetrafluoroethylene, polyammonia-vinegar rubber, polyperfluorinated ethylene propylene, PFA, ceramics, etc
Connecting flange material	Carbon steel, stainless steel (304, 316, 316L)
Transmission distance	Split type electromagnetic flowmeter. The sensor and converter are connected by a signal cable. the cable length should be less than 100m
Peak flow rate	15m/s

#### Operating conditions

Environmental temperature	-25°C~60°C
IP grade	IP65, IP68

#### Electrical overview

Output signal	4-20mA, HART, RS485
Power supply	220VAC, 24VDC

#### Signal electrode form

Fixed, scraper type

#### Electrical connection

Terminal

#### Fluid conductivity

≥50uS/cm

#### Consumed power

< 20W

#### Electrode material

316L, Hastelloy B, Hastelloy G, Titanium, tantalum, platinum-iridium alloy, tungsten carbide

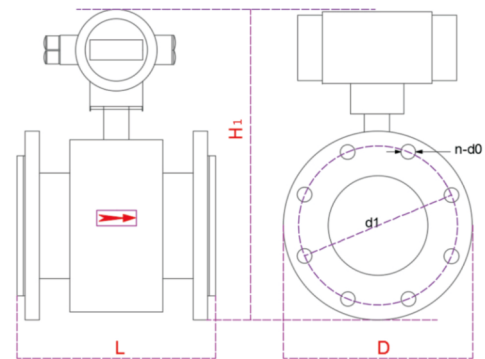
#### Ground ring material

Stainless steel 1Cr18Ni9Ti

#### Number of electrodes

Standard 3 electrodes (two measuring electrodes, one impact electrode)

#### Dimensions in mm(in)



#### Ordering information

##### Example part number: EFM61-0.4311122LB

Model EFM61 electromagnetic flowmeter, Flange size (DN2200-DN3000), Lining material polyurethane, Electrode materials Stainless steel 0Cr18Ni12Mo2Ti, Shell protection Ip65, Explosion-proof marks Exdm IICT4 (No acetylene) (A shape, I P65, Magnetic bond or no display), Attachment None, Structure Eh A shape, Chinese and English Menu, Power 11-40VDC, Converter form LB Key, double line display, output standard, RS485, HART

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\* Please make separate remarks for special requirements.