







# Flow meter series



## Flowmeter Parameters

Parameters			
Model	LDG-SUP	LDGR-SUP	LWGY-SUP
Applicable medium	Any conductive liquid	Any conductive liquid	Liquid
Nominal diameter	DN10-DN2000 Optional	DN10-DN2000 Optional	DN4-DN250 Optional
Nominal pressure	0.6~16MPa(Ultra high pressure can be customized)	0.6~16MPa(Ultra high pressure can be customized)	0.6~4.0MPa(Ultra high pressure can be customized)
Accuracy	±0.5%、±1%	±1.5%	±0.5%、±1%
Range ratio	Customizable	Customize	Customizable
Body Material	304Stainless steel, Carbon steel	304Stainless steel, Carbon steel	304 Stainless steel, 316(L) stainless steel, etc
Operation Condition	Media humidity -20℃~+160℃ Ambient temperature -25℃~+60℃ Relative humidity 5%~95%RH Atmospheric pressure 86KPa~106KPa	Media humidity -20℃~+160℃ Ambient temperature -25℃~+60℃ Relative humidity 5%~95%RH Atmospheric pressure 86KPa~106KPa	Media humidity -40℃~+120℃ Ambient temperature -20℃~+60℃ Relative humidity 5%~95%RH Atmospheric pressure 86KPa~106KPa
Signal output	4~20mA/Pulse / frequency	4~20mA / Pulse / frequency	4~20mA / pulse signal
Communication	RS485、HART	RS485、RS232、HART	RS485、HART
Power supply	100~240VAC/24VDC	220VAC±15%、24VDC	24VDC/3.6V battery
Electrical interface	M20×1.5 Thread	M20×1.5 Thread	M20×1.5 Thread
Protection grade	IP65 or higher	IP65 or higher	IP65
Installation	Flange / clamp / thread	Flange / clamp / thread	Flange / clamp / thread

		
Gas turbine flow meter	Vortex flow meter	Portable ultrasonic flow meter
LWQ-SUP	LUGB-SUP	SUP-2000H
Gas	Gas, liquid, steam	Various fluids: Water, pure water, sewage
DN25-DN300 Optional	DN15-DN300	DN32-DN6000
1.6~4.0MPa(Ultra high pressure can be customized)	1.0~2.5MPa(Ultra high pressure can be customized)	-
±1%、±1.5%	±1.5%	±1.0%
Customizable	Customizable	20:1
304 Stainless steel	304 Stainless steel, 316(L) stainless steel, etc	Multiple probe optional
Media humidity -40℃~+80℃ Ambient temperature -20℃~+60℃ Relative humidity 5%~90%RH Atmospheric pressure 86KPa~106KPa	Media humidity -40℃~+320℃ Ambient temperature -20℃~+60℃ Relative humidity 5%~95%RH Atmospheric pressure 86KPa~106KPa	High temperature type can be customized
4~20mA / Pulse / frequency	4~20mA / pulse signal	Pulse
RS485	RS485、HART	RS232C
24VDC/3.6V battery	24VDC/3.6V battery	Battery powered
M20×1.5 Thread	M20×1.5 Thread	Plug
IP65	IP65	IP65
Flange	Flange / gripping	Portable / wall mounted

## Introduction

LDG-SUP Intelligent electromagnetic flow meter bases on the mature Faraday's law of electromagnetic. The main compositions are: Measuring tube, electrode, excitation coil, pipe lining and converter.

It is mainly used for volume measurement of conductive liquid flow in the closed pipeline. Including strong corrosive liquid, such as acid, alkali, salt, etc. The product is widely used in petroleum, chemical, metallurgical, textile, food, pharmaceutical, paper and other industries, as well as environmental protection, municipal administration, water conservancy construction and other fields.



## Introduction

LUGB-SUP Vortex Flow Meter has high reliability and small maintenance without the movable mechanical parts. The instrument parameters can be stable for a long time. Vortex Flowmeter adopts the Piezoelectric stress sensor with high reliability and can work within the range of working temperature  $-20 \sim +250^{\circ}\text{C}$ . There is a simulated standard signal and a digital signal output. It is easy to match with the computer and other digital systems. It is an advanced and ideal measuring instrument.

## LDG-SUP Electromagnetic flow meter

### Features

- Small pressure loss and high Accuracy
- Strong adaptability and compatibility of various pipes
- Stable and reliable, strong anti-interference
- Good linearity of measure, high repeatability
- Wide measuring range, complete series
- No mechanical inertia, sensitive reaction

Parameters



### Parameters

Name	Electromagnetic flow meter
Accuracy	$\pm 0.5\%$
Nominal pressure	1.6MPa (DN10~DN600) 1.0MPa(DN700~DN1200) 0.6MPa(DN400~DN2000)
Power supply	220VAC, allowable deviation 15% or 24VDC, ripple wave $\leq 5\%$
Electrode type	316L electrode (standard); HB/HC alloy electrode (strong acid and alkali environment) titanium electrode; Tantalum electrode; Tungsten carbide electrode; Platinum electrode
Range ratio	10: 1, 15: 1, 20: 1
Work environment	Sensor: $-20 \sim 180^{\circ}\text{C}$ converter: $-10 \sim 60^{\circ}\text{C}$ ( $\geq 80^{\circ}\text{C}$ to be customized)
Requirements of fluid	Conductive medium (liquid with electrical conductivity more than $5\text{uS/cm}$ )
Flow direction	Forwards, backwards, net flow
Signal outputs	4~20mA (load resistance: $0 \sim 750\Omega$ ), pulse / frequency
Communication	RS485 (MODBUS-RTU protocol) HART protocol, Profibus-DP protocol (customized)
Installation	Flange installation (default), clamp installation (customized)

## LUGB-SUP Vortex flow meter

### Features

- Compatible with many medium
- Dual power supply selection
- Display of parameters on the same screen
- Integrated temperature and pressure compensation
- Small-flow cutting
- Intelligent anti-jamming



### Parameters

Name	Vortex flow meter
Nominal diameter	DN20~300 (integral / split type), DN300~1000 (plug-in type)
Nominal pressure	Flange clamping (PN2.5Mpa), flange connection (PN1.0~2.5Mpa), depending on the size
Accuracy	$\pm 1\%R$ (Default), $\pm 1.5\%F$ , S; Plug-in types: $\pm 2.5\%R$ , $\pm 2.5\%F$ , S
Supply voltage	24VDC; Battery powered : 3.6V
Range ratio	10: 1, 15: 1, 20: 1
Output signal	Square wave pulse (excluding battery powered type); High level $\geq 5V$ , low level $\leq 1V$ ; Electric current: 4~20mA
Protection grade	IP65 or higher
Environmental conditions	Temperature: $-20^{\circ}\text{C} \sim 55^{\circ}\text{C}$ , relative humidity: 5%~90%RH, atmospheric pressure: 86~106kPa
Signal outputs	4~20mA (load resistance: $0 \sim 750\Omega$ ), pulse / frequency
Applicable medium	Gas, liquid, steam