

SGM-LC10

Anti-corrosion level type (PP / PFA)



It is suitable for the new energy and chemical industries, and is used to measure the liquid level height in corrosive environments.

Features

Secure and Reliable / dirt- and corrosion-resistant

Easy to Diagnose / LED real-time status display

Non-Contact Measurement / never wears out

Modular Design / easy replacement

Absolute Position Output / no homing required

Low-Power Design / reduces system power consumption

High-Resolution 16-Bit D/A Analog Output

Specifications

Product parameters - output types	
Analog output	0-10VDC / 0-5VDC / 4-20mA / 0-20mA
Digital output	RS485 (modbus RTU)
Performance	
Measuring range	25–1000 mm
Output signal	0-20mA(max/min load 0/500Ω) 4-20mA(max/min load 0/500Ω) 0-10V(min. load >5KΩ) RS485(MODBUS RTU)
Resolution	16-bit DA
Non-linearity	< ±0.05% (min. ±100μm)
Repeatability	< ±0.001% (min. ±10μm)
Update time	depending on range
Operating conditions	
Magnet speed	any
Operating temperature	-40~+85°C
Storage temperature	-55~+85°C
Humidity	90% humidity, no frost forming.
Temperature coefficient	<30ppm/°C
Protection class	IP68
Chemical resistance	strong acid, strong alkali

Mounting	
Mounting orientation	any
Position magnet	PFA float
Electrical	
Electrical connection	M12*1 waterproof connector
Supply voltage	24VDC (±20%)
Current consumption	varies with range
Reverse-polarity protection	Maximum -30VDC
Over-voltage protection	Maximum 36VDC
Insulation strength	500VDC
Function indication	
Green on, red off	normal operation within the effective range
Green off, red on	magnet outside effective range or no magnet detected
Green off, red flashing	entering debug/commissioning mode
Materials	
Sensor head	PP
Measuring rod	PFA
Mounting flange	PFA

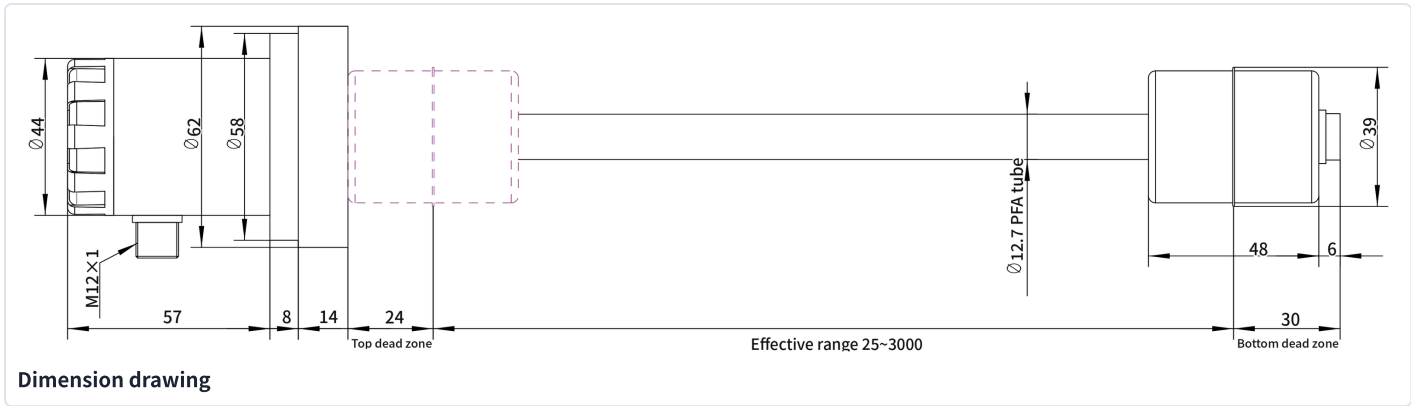
Orderable range as listed; longer ranges and special temperature or pressure versions on request.

Electrical connection

Analog connector pinout (5-pin)

- 1 Analog output +
- 2 Analog output -
- 3 Power +
- 4 Power - (GND)
- 5 Earth

Dimensions (mm)



Range figures in drawings are illustrative; the orderable range is given in the specifications.

Ordering code

SGM-LC10-00-<range>-<output>-<connection>[-options]

Mounting	
00	Standard (no mounting option)
Range	
00025-01000	5 digits in mm, 5 mm steps
Output	
I1F	4-20 mA, zero at rod end
I1R	4-20 mA reversed (20-4 mA), zero at head
I2F	0-20 mA, zero at rod end
I2R	0-20 mA reversed (20-0 mA), zero at head
V1F	0-10 V, zero at rod end

V1R	0-10 V reversed (10-0 V), zero at head
V2F	0-5 V, zero at rod end
V2R	0-5 V reversed (5-0 V), zero at head
R4	RS485 (Modbus RTU)

Connection	
L12	Cable with M12 plug, standard 2 m
L12X	Specified cable

Options	
(none)	Series standard dead zones
Z9	Customer-specified dead zones

Outputs or options listed in the specifications but not in the ordering code are available on request.

Ordering examples

SGM-LC10-00-00600-I1F-L12 600 mm, 4-20 mA, 2 m M12 cable

Specifications are subject to change; final values are confirmed with the order.