

[See page 3 for selection details.](#)



LD10

Plug-in Intelligent Liquid Level Transmitter

Principle of operation

Plug-in intelligent liquid level transmitter is based on the principle that the measured static pressure of liquid is proportional to the height of the liquid, and uses the piezoresistive effect of diffused silicon or ceramic sensitive elements to convert the static pressure into electrical signals.

Product description

LD-10 level gauge transmitter is an adjustable capacitive level gauge developed and produced by our company for high-precision and high-stability measurement of oil level and water level.

It has short-circuit protection and certain overvoltage and surge protection ability, and has the characteristics of fast response, wide voltage power supply, strong load capacity and wide temperature measurement range.

It supports two channels of calibrated analog output, ModBusRTU communication protocol and fast forced zero return function, and the overall performance is stable and reliable.

Functional performance

Range 0~150mm
 With short circuit protection and reverse polarity protection.
 High precision, high stability and high reliability
 Temperature and liquid level dual output
 Protection grade IP68

Product application

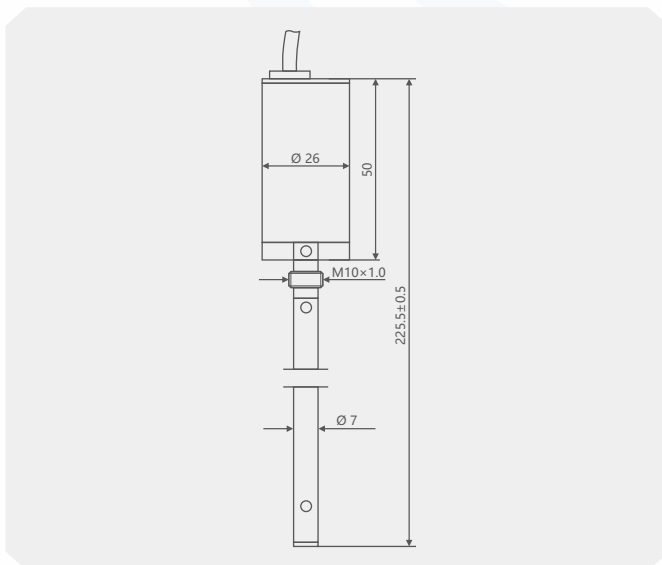
Petroleum and chemical industry
 power
 Equipment matching
 Hydraulic and other industries



Technical parameter

Range range	
Liquid level range	0-150mm
temperature range	-30~100°C
Range range	
Output type	Current output
Power supply	digital output
output signal	9~24VDC
Range range	
Shell material	316l stainless steel
Sensor material	316l stainless steel
Liquid level connection	M10×1.0 external thread
electric cable	Polyethylene special cable
the protection grades	IP65/IP66/IP67 Optional
Range range	
Medium applicability	No corrosion to 316L stainless steel.
Compensating temperature	-10°C~+80°C
Working temperature	-30°C~+80°C
storage temperature	-40°C~+125°C
Range range	
precision	Typical error of liquid level at room temperature is 0.35%. The temperature measurement error is 2.5°C
Response time	Typical value of liquid level measurement < 1s, and typical value of temperature measurement < 3s.
Load resistance	≤300Ω
operational current	< < 60mA (dual 4-20mA simultaneous output)

Size mm



Electrical connection

Range range	Electrical definition
red	Power supply positive: +V
black	Power supply negative: GND
brown	Liquid level output: 4~20mA
white	Temperature output: 4~20mA
green	RS485-A
yellow	RS485-B

LD10-Selection composition

Selection example **LD10** **A** **E** **J** **H** **O**

1 2 3 4 5

1.Measuring range mm	A	0-50
	B	0-100
	C	0-150
	T()	Other measuring range
2.voltage	E	9-24V
	T()	Other voltage types
3.output signal	J	4-20mA
	K	RS485-A
	L	RS485-B
	T()	Other output types
4.material	H	304 stainless steel
	I	316 stainless steel
	T()	Other material types
5.Connection specification	O	G1/2
	U	G1/4
	V	1/4NPT
	W	1/2NPT
	T()	Other types of connection

Instructions:

LD10 type plug-in intelligent liquid level transmitter, measuring range is 0-50mm, voltage is 9-20V, output signal is 4-20mA, material 304 stainless steel, connection specification G1/2.

Product Certification

Compliance and approval; Rodweig level gauges meet key standards and certifications for process measurement technology; This guarantees the highest reliability in such Settings;