

RKL-04 Capacitive Liquid Level Transmitter

The sensing part of the RKL-04 is a coaxial capacitor, when the liquid enters the condenser caused the change of the sensor shell and sensor capacitance between electrodes, the variation through the subsequent acquisition and conversion circuit and precise linear and temperature compensation, the output field required standard voltage, current, the digital signal, sampling frequency is adjustable. Food grade Teflon and 304 stainless steel material with fully welded structure, high health level, high breaking strength; Long - term stability, high reliability. Used for measuring: oil (gasoline, diesel oil, hydraulic oil, lubricating oil), water (sewage), beverage, medical treatment, chemical and other liquid media, suitable for high and low temperature, or even viscous liquid media occasions. Extremely wide measuring range: 0.03.....2m, especially suitable for measuring liquid heights below 500mm.

FEATURES

- Convenient: install through thread or flange, easy to operate, good sealing performance;
- It can be recalibrated externally
- Integrated structure
- Suitable for a variety of liquid level (object level) measurement
- The measurement blind area is small ($\leq 10\text{mm}$, the minimum can reach 5mm) with high precision
- Continuous measurement of liquid in various containers, especially oil level in oil tank; Will not affect the original system;



APPLICATIONS

- Logistics freight fleets, engineering vehicles, oil tankers, diesel generators etc.
- Measurement and real-time monitoring of lubricating oil and hydraulic oil of various engines, generator sets, mechanical equipment, engineering vehicles, etc.
- Chemical and medical equipment and other occasions that need to measure and monitor chemical liquids and corrosive or even strong acid-base liquids
- Monitoring water level of sewage treatment plant and water tank
- Teaching equipment, laboratory liquid level test in scientific research institutes. Especially suitable for measuring liquid level height less than 0.5m

SPECIFICATIONS

Item	Technical specifications
Range	0-30...100...500...700...2000mm
Output	4-20mA, 0-5V, RS485
Supply Voltage	DC12-24V.
Comprehensive Accuracy	1.0%FS
Long-term stability	0.2%FS
Zero temperature drift	0.02%FS/°C
Full temperature drift	0.03%FS/°C
Ingress Protection	IP67

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Operating Temperature	-40°C~ +80°C(Other temperatures can be customized)
Pressure range	-0.1mpa ~ 0.5mpa
storage temperature	-40 ~ +100°C
Blind area detection	5mm(optional),10mm(typ.)
Probe diameter	Φ16 mm
Fixed thread installation	M20×1.5, G1/2, customized; Flange DN25, DN40, DN50 can be installed
Electrical interface	Direct line
Measuring the dielectric	Oil (gasoline, diesel oil, hydraulic oil, lubricating oil), water (sewage), beverage, medical, chemical and other liquid media

PARAMETER SELECTION TABLE

Remark	Series	Supply	Output	Range	Cable Length	
RKL						
	04					
		A				12-24V
		X				Other
			A			4-20mA
			B			0-5V
			C			RS485(MODBUS-RTU)
			X			Other
				R		0~2000mm optional
					5000	5m
					...	...

Example: RKL-01AAR100mm5000 Supply:12-24V, Output:4-20mA, Range:100mm, Cable Length:5m.



Complies with applicable CE directives.

Specifications subject to change without notice. Version 3.0

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