

## UQK-300 FLOAT LEVEL CONTROLLER

### Summary

The UQK-300 float level controller is suitable for level or interface controlling and alarm for different kinds of vessels in production processes in petroleum, chemical, textile dyeing and finishing, and water treatment, etc.



### Operating Principle

The UQK-300 float level controller consists of magnetic float, measuring rod, reed switch, junction box, etc. Magnetic float moves up and down with the level change and reed switch operates at setting alarm position to control the alarm system alarming or the pump to start and stop.

### Technical Parameters

Mounting type: Top-mounted

Control length: 0 ~ 6000mm

Basic error: ±10mm

Contact type: SPDT

Contact capacity: AC100VA, DC100VA (intrinsically safe type is only for 24V)

Max. voltage: 250V

Max. current: 1A

Nominal pressure: ≤2.5MPa

Nominal diameter: DN150、DN100

Ambient temperature: -40°C ~ +80°C

Operating temperature: -20°C ≤ T ≤ +120°C

Medium density: For level:  $\rho \geq 0.65\text{g/cm}^3$

For interface:  $\rho_1 - \rho_2 \geq 0.25\text{g/cm}^3$

Wetted material: 304, 316L or on request

Flange standard: HG/T20592-2009, HG/T20615-2009 or on request

Power supply inlet: M20×1.5 (internal thread) or on request

IP rating: IP66

Relative equipment: Safety barrier (see safety barrier recommendation sheet)

### Model Selection Table

Model	Code		contents
UQK-300			Float level controller
	L1		Upper limit alarm

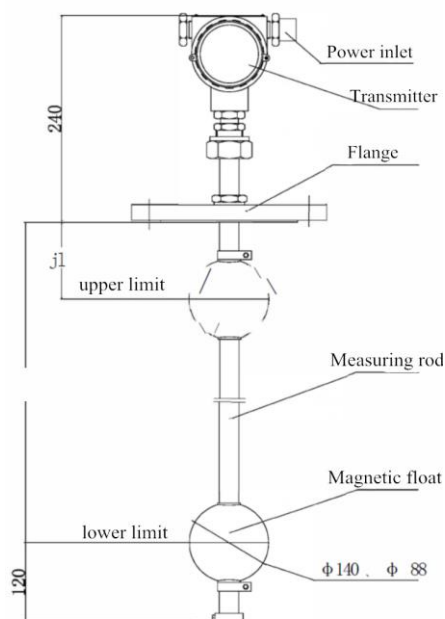
	L2							Lower limit alarm
	Y							Upper, lower limit alarm
		-						
			*					Distance from upper alarm setting position to flange interface
				-				
					*			Distance from lower alarm setting position to flange interface
						-		
							*	Medium density(g/cm <sup>3</sup> )
							d	Explosion isolating
							i	Intrinsically safe
UQK-300	<input type="checkbox"/>	-	<input type="checkbox"/>	-	<input type="checkbox"/>	-	<input type="checkbox"/>	<input type="checkbox"/>

### Example

UQK-300Y-300-1500-0.8d is float level controller, top mounted, upper and lower limit alarm, distance from upper alarm setting position to flange interface is 300mm, distance from lower alarm setting position to flange interface is 1500mm, medium density is 0.8 g/cm<sup>3</sup> and explosion isolation.

### Outline Drawing and Installation

Outline and structure sketch of UQK-300 float level controller as follows.



### Safety barrier recommendation sheet

Dandong Top Electronics Instrument Co., Ltd	TP5041 – EX TP5045-EX
Shanghai Automation Instrument Institute	CS8041-EX CS8045-EX

### Ordering Information

- Model and specification
- Medium
- Operating pressure
- Operating temperature
- Flange standard
- Wetted material
- Medium density
- The number and position of alarm
- Other special requirements