

UQK-400 FLOAT LEVEL CONTROLLER

<u>Summary</u>

The UQK-400 float level controller consists of float, connecting rod, iron core unit, and magnetic switches / signal conversion device. The float moves with level changes in the vessel and makes connecting rod and iron core unit move. Through the magnetic coupling effect, the position change of magnetic steel in the iron core makes micro switch or reed switch acting to realize the functions of level controlling and alarming.

Technical Parameters

- Mounting type: Side-mounted
- Control length: 60mm~120mm
- Accuracy: Level controlling: ±4mm
- Interface controlling: ±6mm
- Nominal pressure : <6.3MPa
- Wetted material: 304、316L or on request
- Nominal diameter: DN80
- Flange standard : HG/T20592-2009,HG/T20615-2009 or on request
- Ambient temperature: -40 $^\circ\text{C}$ \sim +80 $^\circ\text{C}$
- Medium temperature : -40 $^\circ\text{C}$ \sim +150 $^\circ\text{C}$
- Service life: ≥5×10⁵
- Medium density: For level controlling: ρ≥0.6g/cm³
 - For interface controlling: $\rho 1 \rho 2 \ge 0.16 \text{g/cm}^3$
- Medium viscosity: ≤ 1 St (10⁻⁴m²/S)
- Power supply inlet: G1/2"(female thread) or on request
- Explosion-proof: Explosion isolation type Exd II CT1 \sim CT5/T6 Gb
- Intrinsic safe type $\,$ Exia II CT1 \sim CT5/T6 Ga
- IP Rating: IP66
- Safety barrier (see safety barrier recommendation sheet)

Contact Capacity

Switch type	Max.Voltage AC	Max. Current (A)	Contact Type	Contact Resistance (≯Ω)	Switching speed (≯ms)	Service life (≮ 104 times)
Reed switch	250V	1	SPDT	0.03	3	50
Micro switch	250V	5	SPDT	0.03	3	50

Note:

24V DC is only for intrinsically safe type.





Model Selection Table

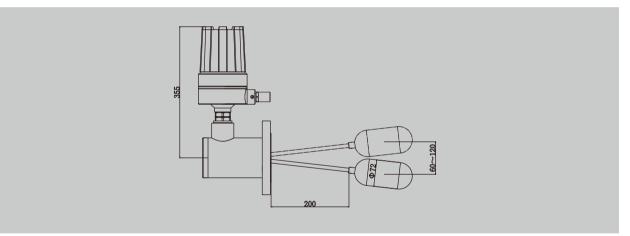
Model	Code			Content	
UQK-400					Float level controller
	1				Reed switch
	3				Micro switch
		х			Upper or lower limit
			*		Medium density (g/cm³)
				i	Intrinsically safe type
				d	Explosion isolating type
UQK-400					

Example

UQK-4003X0.8d is UQK400 float level controller, micro switch, upper or lower limit alarm, medium density is 0.8g/cm³, explosion isolating .

Outline Drawing and Installation

1. Structure and size as follows



2. Safety barrier recommendation sheet

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

Order Information

>	Model	Fluid name	Operating pressure	Operating temperature
*	Flange standard	Wetted material	Fluid density	The number and position of alarm

Other special requirements