MAGNETIC FLAP LEVEL GUAGE

Main Features

➢ BTUHZ series magnetic flap level gauge is a field indicating level gauge, with float as measuring element, magnetic steel driving magnetic column display, no energy required. It can achieve high sealing and leakage prevention, and can safely and reliably measure liquid level in various environments such as low temperature to high temperature, vacuum to high pressure, strong corrosion, etc., with eye-catching display, intuitive reading, and large measuring range.

➢The product is equipped with upper and lower limit switch output, which can realize remote alarm and limit control.

➢The product is equipped with remote transmission transmitter, which can convert liquid level and interface position signals into two-wire 4-20mA DC24V standard signals to realize remote detection, indication, recording and control.

➢According to the different installation positions of the container, three types of side mounting, top mounting and top mounting side display are provided.

➢According to different working media, 304, 316L, stainless steel lined with PTFE, PP, UPVC and other materials are provided, among which stainless steel lined with PTFE, PP, UPVC are suitable for corrosive media such as acid and alkali.

➢BTUHZ series products are widely used in liquid level measurement and control in the production process of various industries such as electricity, petroleum, chemical industry, metallurgy, food, etc. They are ideal liquid level measurement products.

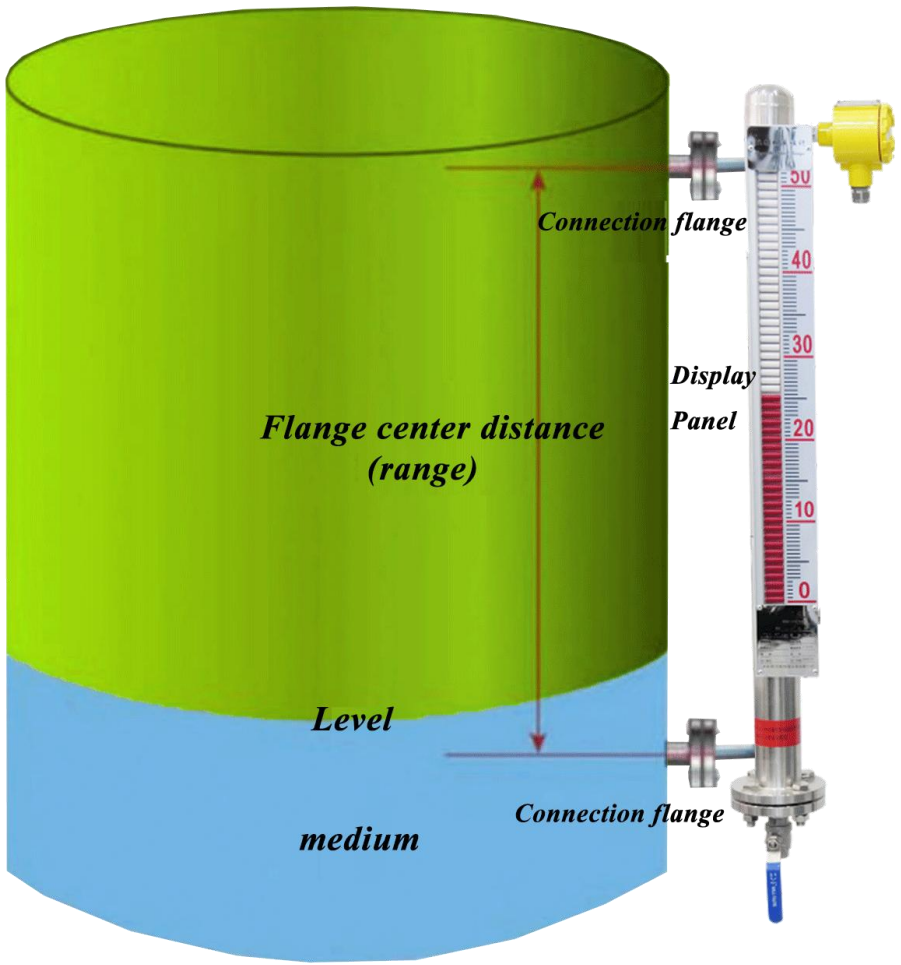
Main technical indicators

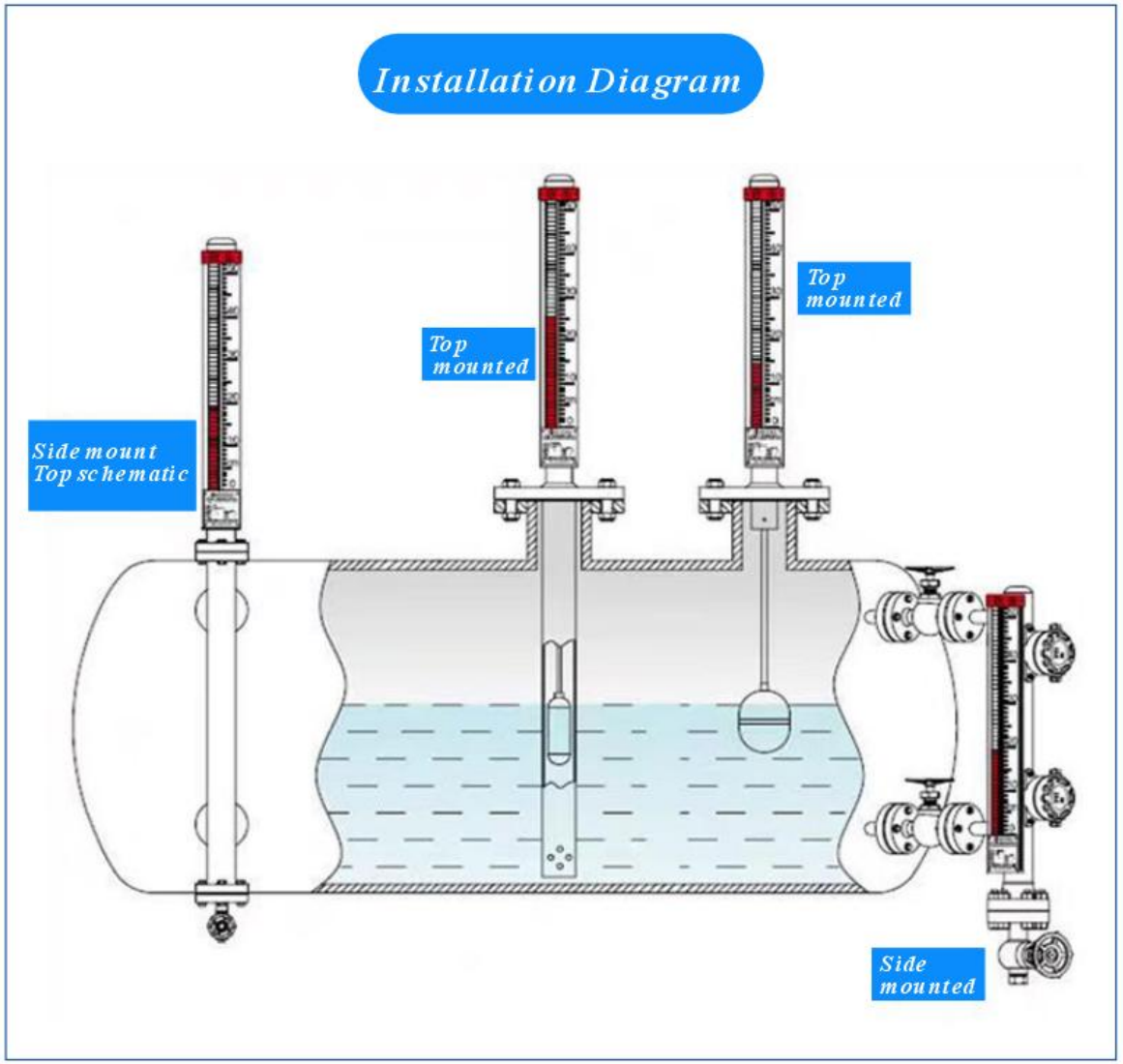
Installation form	Side-mounted	Top-mounted
Installation distance (measuring range)	250mm to 6000mm or even longer, more than 4m can be segmented, with a support frame	300mm to 6000mm can be customized according to user requirements
Working pressure	- 0.1-16 Mpa	- 0.1-2.5 Mpa
Medium density	≥0.7g/cm3	0.8g/cm3
Connection flange	DN20, DN25PN1-6 (HG20592-20635) Other standards can be specified at the time of ordering	DN80 PN1.0 Other standards can be specified at the time of ordering
Main material	304, 316L, PP, UPVC, stainless steel lined with PTFE	
Medium temperature	Stainless steel: -40-380℃, PP: 0-50℃, UPVC: 0-50℃	
Indication error	± 10mm	
Upper and lower limit alarm switch output	1, control sensitivity: 10mm 2, output contact capacity: AC220V 0.5A 3, contact point life: 5×10^{n} （n=4） 4, explosion-proof characteristics: iallCT6 intrinsically safe (optional)	
Electric remote transmitter	1, accuracy: ±1.5% 2, output signal: 4-20mA output, 24V DC two-wire system (485/HART) 3, explosion-proof characteristics: iallCT6 intrinsically safe (optional)	
Magnetostrictive remote transmitter	1, repeatability error: <±0.002%F.S 2, output signal: 4-20mA DC24V,DC 0-5V, DC0-10V 3, explosion-proof characteristics: ExdllBT6(optional)	

MODEL CODE

BTUHZ		X	X	X	X	X	X	X
Installation method	Side-mounted	1						
	Top-mounted	2						
	Top side type	3						
Main material	304 (with aluminum alloy display)		1					
	316L (with aluminum alloy display)		2					
	Plastic anti-corrosion type (3. UPVC 3b. PP)		3□					
	Stainless steel lined with PTFE (with aluminum alloy display as standard)		4					
	Jacket type (a. Steam jacket b. Electric heating c. Electric heating d. Frost-proof type with aluminum alloy display as standard)		5					
	Titanium (with aluminum alloy display as standard)		6					
Niminal pressure	0.6Mpa			1				
	1.6Mpa			2				
	2.5Mpa			3				
	4.0Mpa			4				
	6.3Mpa			5				
	10Mpa			6				
Transmitter optional	Basic type (without remote transmission device)				1			
	Magnetostrictive remote transmission				3			
	Conventional aluminum box remote transmission				4			
	Explosion-proof aluminum shell remote transmission				5			
Magnetic switch optional	No magnetic switch					0		
	Plastic case magnetic switch					1		
	Explosion-proof magnetic switch (a. Stainless steel explosion-proof b. Explosion-proof junction box)					4		
Special features	Magnetic sensitive electronic two-color type (can be omitted if this option is not available)						D	
	Sanitary type, vaporization type, guide protection tube type (can be omitted if this option is not available)						C□	
Process parameters	Flange center distance (measuring range mm)							□
	Medium density P (g/cm)							□
	Measurement temperature (℃)							□

Installation Drawing





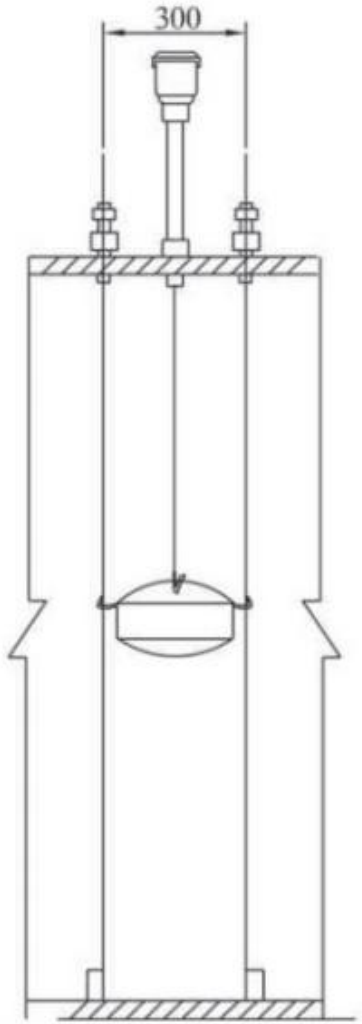
FLOAT LEVEL GAUGE

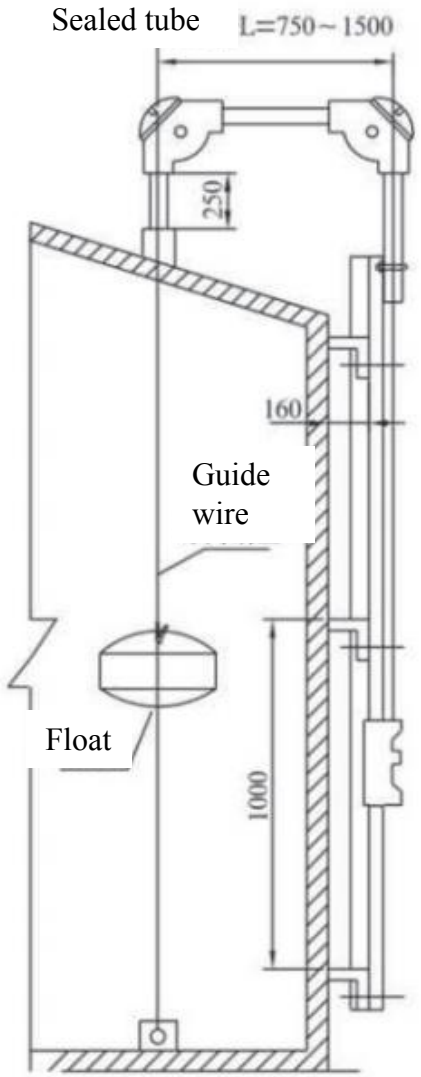
Main Features

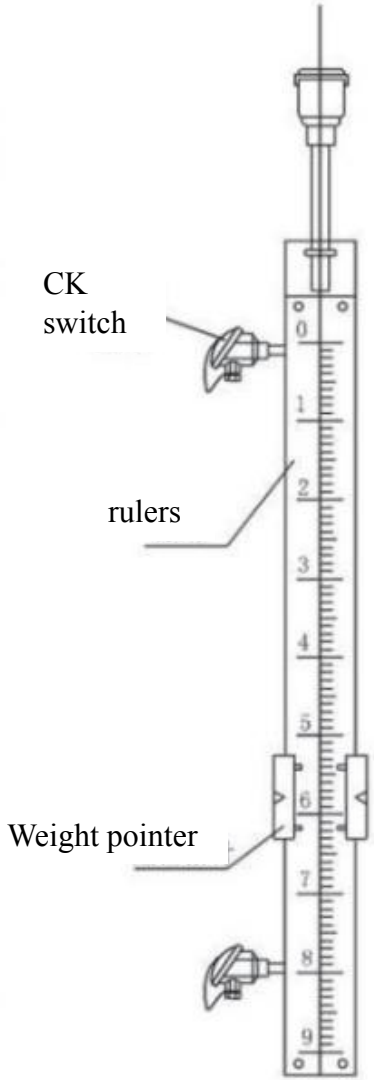
BTUFZ type float level gauge is a new type of simple on-site liquid level measurement and display instrument produced by our company. This product adopts fluorescent scale display, the reading is intuitive and eye-catching, and the measurement range is large. It is widely used in petroleum, chemical, power system, general enterprises, civil construction and other industries. It can measure and control the liquid level of flat-bottom, cone-bottom and arch-top containers such as tanks, tanks and oil depots with high-density and highly corrosive media. The weight can be magnetic and can be equipped with our company's control switch or remote transmission instrument to realize the electrical interlocking control or alarm and remote transmission of the liquid level.

Main Technical Indicators	
Measuring range	Any choice within 0 ~ 20m
Indication accuracy	± 10mm
Working pressure	Normal pressure
Medium density	≥0.7g/cm3
Working temperature	-30℃~200℃
Scale material	Aluminum alloy, stainless steel
Guide wire, hanging wire material	304 316
Guide tube material	PP, PVC, stainless steel

Structure chart







MODEL CODE

BTUFZ		X	X	X	X
Indicate direction	Reverse ("0" is at the top, "full" is at the bottom)	1			
	Forward ("0" is at the bottom, "full" is at the top)	2			
Material	Non-metallic float, steel wheel frame, steel indicator frame and aluminum alloy scale		1		
	Stainless steel float, stainless steel wheel frame, aluminum indicator frame scale		2		
	Fully anti-corrosion type		3		
Guidance method	2 guide wires (guide wires are on both sides of the float, and guide earrings are added on both sides of the float)			1	
	Guide tube			2	
	Guide rod (guide cage)			3	
Remote alarm method	Without remote transmission				1
	Non-memory reed switch alarm switch				2
	With memory alarm switch				3
	With remote transmission and (24V, 4~20mA)				4

FLOAT LEVEL GAUGE

Product Overview

BTUQD float level transmitter consists of a magnetic float, measuring conduit, measuring element, circuit unit, junction box housing and mounting parts. The float changes synchronously with the liquid level. Through magnetic coupling, the resistance in the sensor changes linearly. The converter then converts the resistance change into a current amplified to a 4-20mA two-wire standard signal output, realizing remote detection and control of the measured liquid.

UQD float level transmitter is suitable for water treatment in industries such as oil refining, chemical, papermaking, food and pharmaceuticals, as well as the page position measurement of media in various high and low level containers in industrial production, especially for underground tank level measurement.

Main technical parameters

Measurement range: 0-6000mm

Output signal: 4-20mA two-wire standard signal, optional HART

Power supply voltage: 24VDC

Accuracy: ±10mm, ±5mm,

Optional working pressure: <2.5mm

Liquid contact material: 304, 316L, PTFE, etc.

Outlet connector: M20*1.5, 1/2NPT

MODEL CODE

BTUQD-91		X	X	X	X
Output type	4-20mA 24VDC power supply two-wire system	C			
Indication type	Without field display		2		
	With LCD red digital display converter		3		
	With LCD black display converter		4		
Material	Stainless steel conduit stainless steel float			2	
	Stainless steel lined with polytetrafluoroethylene			3	
Installation method	Flange installation				1
	Thread installation				2
	Bracket installation				3
Installation height	L=				