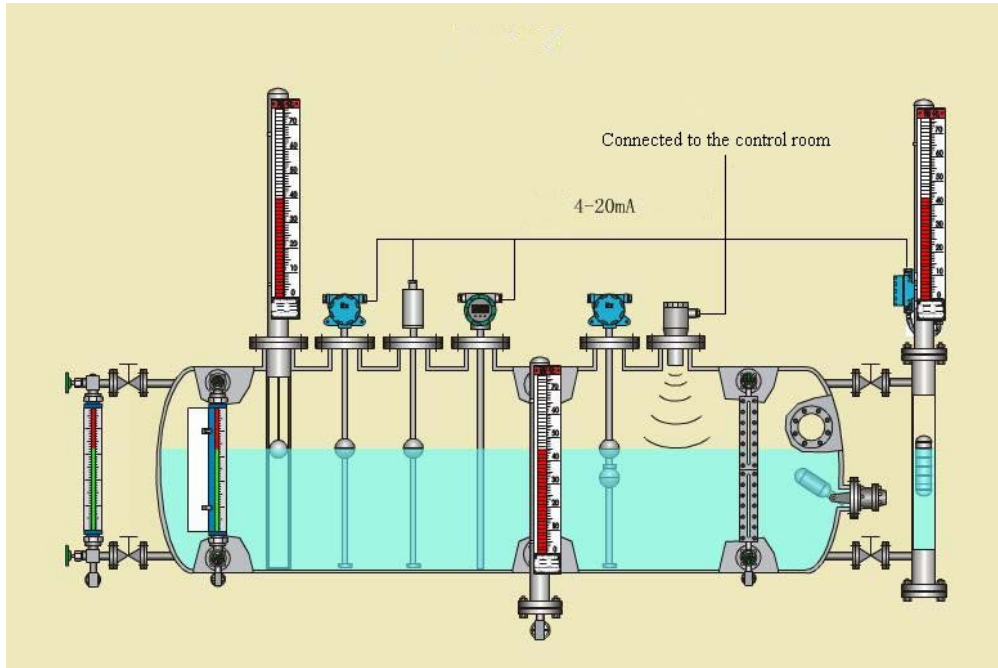


**Liquid level meter installation diagram**



**Magnetic Floating Ball Liquid Level Meter**

**Description:**

ATV Series magnetic floating ball liquid level indicator (abbreviated as the indicator) is used to test liquid level of media in storage devices (tower, vat trough, ball-shape container and boiler) under pressure or open. It could indicate status and height of various liquids. The liquid level signal could be transmitted from long distance with connection of the indicator and liquid level transmitter. With certain electric devices, automatic control & measuring of liquid level could be realized.



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## UJZ Side-mounted Magnetic Level Meter



### Main technical data

1. Measuring Range(mm)	300~19000
2. Accuracy	≤±10mm,
3. Working Pressure	<6.3MPa
4. Medium Density	0.5~2g/cm <sup>3</sup>
5. Pressure Class	≤32Mpa
6. Operating Temperature	-40~450°C
7. Max.distance	3Km
8. Output signal	4-20mA.DC
9.Flange	DN20, DN25..DN80, DN100
10. Medium viscosity	≤0.15pa·s
11. Material	SS 304, SS 316
12. Ex-proof grade	Exd □ BT6. ExiacT6
13. Alarm	optional
14. Protection	IP 66
15. Installation	side-mounted; top-mounded
16. Output	4-20mA
17. Alarm	Upper alarm, lower alarm , upper and lower alarm

## UJZ Top-mounted Magnetic Level Meter

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**Remote Transmission Type side-mounted Magnetic Level Meter**



**Upper and lower alarm type side-mounted Magnetic Level Meter**



**Magnetic Level Meter ordering instruction**

1. Measuring Range
2. Working Pressure
3. Operating Temperature
4. Medium Density
5. Material
6. Flange size
7. Installation

**Insert Type Magnetic Floating Ball Controller**



**Main technical data**

Ambient temperature	-20□~70□			
Relative humidity	5%~100%			
Pressure	86~108KPa			
Insertion depth	500~6000mm			
Measuring range	0~6000mm			
Medium temperature	-10□~80□			
Medium density	≥0.5g/cm <sup>3</sup>			
Operating pressure	≤1.6Mpa			
Flange	DN160,PN1.6MPa convexity			
Accuracy	range(mm)	0~500	500~2000	2000~6000
	accuracy(%)	±2	±1.5	±1
Protection class	IP65			
Explosive-proof class	flameproof type: Exd IIBT4~T6			
	intrinsic safty type: Exid CT4~T6			
Display devices	XMTA-9000 digital displayer size:160*80			

**UQK Series ball float liquid level switch**

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UQK-01/02/03



**Main technical data**

Type	Medium pressure (MPa)	Medium temperature (°C)	Change-over Difference (mm)	Setting Manner	Installation
UQK-01	1	150	≤14	Non-adjustable	Level
UQK-02	1	150	25~250	Adjustable	Level
UQK-03	1	150	8~1000	Non-adjustable	Vertical

UQK-100



**Description:**

UQK-100 series of reed switch float level controller can work with the motor control equipment, to control the level for industrial or commercial water tanks, water towers and a

variety of acid alkali storage sump. Also applies to non-conductive liquid and the medium containing suspended solids.

### Main Technical data

Control range	200~8000mm (If exceed 4000mm, segmented installation is needed)
Output signal	Reed contacts 380V AC, 2A Working life $5 \times 10^4$ Times
Medium temperature	-20~100°C (Special orders 125°C)
Working pressure	0~0.6MPa (Special orders 2.5MPa)
Medium density	$\geq 0.4 \text{g/cm}^3$
Control sensitivity	10mm
Medium viscosity	$\leq 0.05 \text{Pa}\cdot\text{S}$
Using environment	Temperature -10~55°C Humidity $\leq 85\%$ , Strong vibration-free

## Glass Plate Level Gauge

### Reflection type Glass Plate Level Gauge



### Description:

RP5 glass plate level gauge is produced according to the former chemical HG5-1364~1370-80 standard. It is suit for direct indicating the medium level in tower, jug, groove, box and other containers.

### Main Technical data

Measuring range(center distance)L	300,500,800,1100,1400,1700mm
Material	Carbon steel, stainless steel
Working temperature	-20~+200℃
Steel ball self-closing pressure	$\geq 0.2 \text{MPa}$
Vapour pressure	$\leq 0.6 \text{MPa}$
Steam jacket connector	G1/2" outer thread

## HG5 Frost-prevention type Glass plate Level Gauge



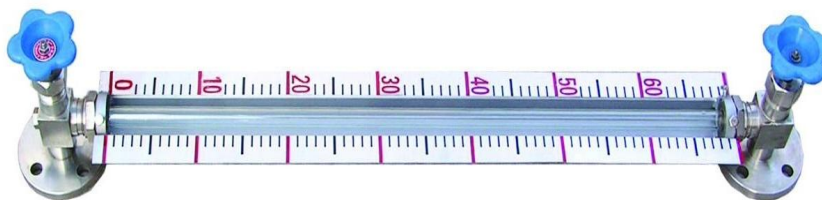
### Descriptions:

HG5 Frost-prevention type glass plate level gauge is produced according to the former chemical HG5-1422~81 standard. It is suit for indicating the chemical , petroleum and other industrial cryogenic equipment.

### Main Technical Parameters

Nominal length	580、920、1260、1600、1940mm
Flange standard	HG20592~20637 - 97
Nominal pressure	1.6MPa( flange PN2.5 DN25)
	4.0MPa (flange PN6.3 DN25)
Up and down needle-valve's self-closing pressure	$\geq 0.2$ MPa

## Glass Tube Level Gauge



### Description

JD-UG glass tube level gauge is used to indicate liquid level for a variety of open or sealed vessel. According to different measurement medium, following body material is optional: carbon steel, ABS, stainless steel or Teflon material. ABS and PTFE can be used for acid, alkali and other corrosive media.

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**Main technical data**

Mounting type	Side-mounted
Scale	300--2000mm
Working pressure	≤0.6MPa
Connection type	Flanges, Threaded
Body material	Glass or plexiglass tube.
	Carbon steel, stainless steel,ABS or PTFE.
Medium temperature	Ambient temperature
Environment temperature	0-70°C

Small glass tube liquid level meter



**Main technical data**

- 1) Measuring range: 100, 150, 200, 250, 300
- 2) Measured medium pressure: 1.6 MPa, 2.5 MPa
- 3) Measured medium working temperature: -10℃ ~ + 200 ℃
- 4) Interface thread: G3/8 or the M16\*1.5

**Naming method**

UGB05			
Connection type	A		Single end
	B		Double end
Measuring range		1	100mm
		2	200mm
		3	300mm
Material		0	304
		L	316L
Visual angle			T Front
			H Side

UGD series Light-penetrable Type Glass Tube Level Gauge

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**Description:**

UG series single color glass tube level gauge is a new type level gauge of combining the advantage glass tube level gauge and plate type level gauge and boiler water gauge . It can take the place of high-temperature glass plate level gauge and high-pressure, little proportion magnetic level gauge and non-blind area level gauge in some ways.

**Main technical data**

Measuring range	350、440、500、600、800、1000、1200、 1400、1700、2000mm
Working pressure(MPa)	Glass tube:1.0,1.6 quartz tube:2.5, 4.0, 6.4
Working temperature	-10℃~+450℃
Steel ball self-closing pressure	>0.2Mpa weight:15~30kg
Vapour pressure	≤0.6MPa
Steam jacket connector	G1/2" outer thread
Flange	DN20, DN25

**The relation of L and H**

Measuring range L	350	440	500	600	800	1000	1200	1400	1700	2000
Vertres H	150	240	300	400	600	800	1000	1200	1500	1800

Type selection								
UGD	A					Normal	Type	
	C					Non-blind area		
		S				Quartz tube	Glass tube	
		B				Borosilicate tube		
			I				Carbon steel	Meet liquid material
			II				SS304、SS316L	
			F				RPP	
					1		1.0	Nominal pressure ( MPa )
					2		1.6	
					3		2.5	
					4		4.0	
					5		6.3	
6						10.0		
					T <sub>1</sub>	-10□~+200□	Medium temperature ( □ )	
					T <sub>2</sub>	+200□~+450□		
					O	without	Steam jacket	
					W	have		
					O	without	Illumination	
					M	have		

Quartz Tube Level Gauge



### Main Technical data

Measuring range	0~2500mm
Working pressure	0.6, 1.6, 2.5, 4.0MPa
Process connection	DN20(or DN25, DN40) RF (or FF), HG20592-20635-97. Or flange standard to be specified.
Working temperature	, -50~450°C
Material	carbon steel, stainless steel 1Cr18Ni9Ti, 304SS, 316L, transparent quartz tube: unique 99.99% SiO <sub>2</sub>
Options	steam heating jacket, circulating water heating jacket

Seal Steel Ball pressure	≥0.2MPa
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### Naming Method

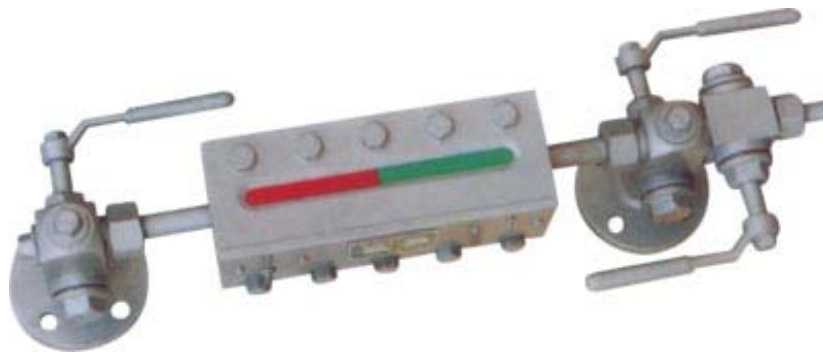
UGS	Color Quartz Glass Tube Liquid Level Gauge		Model
	<b>A</b>	Standard:no blind area.valve with safety device	
	<b>B</b>	common type: with blind area, temperature:-50~450°C	
	<b>C</b>	anti-corrosion: PP lined stainless steel,temperautre≤80°C	
	<b>D</b>	anti-corrosion: PTFE lined stainless steel,T≤200°C	
	<b>G</b>	Large diameter glass level gauge	
	<b>1</b>	CS	
	<b>2</b>	304S	
	<b>3</b>	316L	
	<b>25</b>	Class 150LB ANSI	PN2.5Mpa
	<b>40</b>	Class 300LB ANSI	PN4.0Mpa
	<b>64</b>	Class 400LB ANSI	PN6.4Mpa
	<b>100</b>	Class 600LB ANSI	PN10.0Mpa
	<b>20</b>	DN20	
	<b>25</b>	DN25	
	<b>40</b>	DN40	

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					<b>RF</b>	Raised flange		<b>Flange seal</b>
					<b>FF</b>	flat flange		
					<b>J1</b>	heating jacket		<b>Heat tracing</b>
					<b>J4</b>	electric heating		
						<b>300</b>	300mm	<b>C-C distance</b>
						<b>500</b>	500mm	

**Two Color Water Level Gauge for Boiler**



**Description:**

It is the most advanced water level gauge in the country. It is used for indicating the water level of industrial steam boiler and steam locomotive boiler.

**Main Technical data**

Type	B49H DN25 ( mm )		
Nominal pressure	1.6MPa	2.5MPa	4.0MPa
Test pressure	2.45MPa	3.8MPa	6.0MPa
Install centre distance	300、350、440 ( mm )		
Visual height	165 ~ 195 ( mm )		
Display color code	Green: have water    Red : without water		
Observing distance	≤60m		
Viewing angle scope	20°		
Main material	Q235-A carbon steel		
Voltage, power	AC 36±4V , 6W		
Medium temperature	t≤250□		

## Magnetostrictive liquid level sensor



### 1. Introduction

Magnetostrictive level gauge used in petroleum, chemical raw materials storage, industrial processes, biochemical, pharmaceutical, food and beverage, tank inventory management and underground stations and other industrial tank liquid level measurement and control, dam levels, reservoirs water level monitoring and wastewater treatment and so on.

### 2. Working principle

Magnetostrictive level gauge consists of three parts: the probe rod, the circuit unit and the float components. Measurement, the circuit unit generates current pulses of the pulse along the magnetostrictive transmission line down and produce a circular magnetic field. Outside the probe rod with a float, the float along with the level of change in probe rod moves up and down. Since the float has a permanent magnet built, so the float while generating a magnetic field. The magnetic field and the magnetic field when the current float encounter, resulting in a "twisted" pulse, or "Back" pulse. The "Return" pulse time difference between the current pulse into a pulse signal to calculate the actual position of the float, the measured fluid level.

### 3. Features

- 1 ) Reliability
- 2) High precision
- 3 ) Good safety
- 4 ) Magnetostrictive level gauge is easy to install and simple to maintain
- 5 ) Ease of system automation

### 4. Main performance

Range: 0 ~ 6000mm

Accuracy:  $\pm$  0.3mm

Resolution: 0.1mm

Ambient temperature :: -25 °C ~ 70 °C

Liquid temperature: -25 °C ~ 150 °C

Process connection: 3/4 "NPT

Power: DC24V

Output Signal : 4 ~ 20mA, 2-wire / 4-wire,

Temperature measurement: -25 °C ~ 70 °C

Temperature error: ± 0.5 °C

Proof grade: Ex II BT4

**5. Technical data**

PLUSHAUT - the M5 Magnetostrictive liquid level meter type	Range
M5-10	1000mm
M5-25	2500mm
M5-40	4000mm
PS: According to users need to customize the range of 1000 ~ 6000 mm within the scope of the product.	

List of parts		list of installed accessories (choose)	
Name	QTY	Name	QTY
Liquid level float	1	connector	1
boult	2	taper sleeve	2
clamp spring	1	gland nut	1