

1. Magnetic Level Indicator

The magnetic level gauge consists of Red/white or Yellow/Black magnetic rollers equipped with small magnets which are rotated one after another at an angle of 180° by the magnetic field of the permanent magnet put inside the float. The rollers change from white to red on rising level and red to white on falling level.

This level gauge can be side mounted or top mounted. when assemble with level transmitter outside the chamber, it can output 4-20mA, RS485, Hart. can assembled with several reed tube switches on needs for control purposes. When match with our secondary indicator, can realize remote indicating.



Model Selection Table

ISEN-UHC-	C	Side mounted;			
	D	Top mounted			
	O	Other			
	Signal	Y	Standard transmitter	4~20mA current signal(Resolution: 20mm/10mm/5mm);	
		H	Hart;		
		A	Switch and number;		
		L	transmitter with LCD		
		NA	No signal output		
	Indicator type	O	Aluminium indicator holder		
		S	Sealed bargraph with stainless steel holder		
		L	Red/Green flaps with LED lamp		
	Structure	S	Steam tracing		
		E	Electric heating		
		F	Defrost		
		NA	Ordinary type		
	Valve	D	Drain valve or drain plug		
		DV	Drain valve and Vent valve or plug		
		N	No valve		
	Working temperature	A	Ambient temperature (0~60°C)		
		B	-20~90 C		
		M	-20~150°C		
		H	High temperature(<450°C)		
		L	If easy frozen		
	Material	SS304	0Cr18Ni9		
		SS316L	022Cr17Ni12Mo2		
		SS321	0Cr18Ni10Ti		
		PP	PP(Polypropylene), PVC PVDF		
		PTFE	stainless steel lined with PTFE		
		FRP	Anticorrosive, <80C		
	Explosion-proof	S	Safety environment		
		E	Explosion-proof ExdII BT4		
		I	intrinsic safety ExibII CT4		
	Measure range			Unit: mm	
	Fluid density			g/cm3	
	working pressure			2.5, 4.0, 6.4, 10MPa	
	Flange size, rate and standard			ANSI	DIN JIS

Example: ISEN-UHC-C-YA-O-D-M-SS304-S-500-0.8-1-DIN DN25 PN16

Remark: Manufactured customized is available for this product..



Model	ISEN-UHC-C Side Mounted Magnetic Level Gauge
Measure ranges	100-15000mm
Measure accuracy	±5mm
Working pressure	1.0, 1.6, 2.5, 4.0, 6.4, 10.0, 16MPa
Fluid temperature	-40~ 45 0 °C
Fluid viscosity	≤14m/s
Fluid density	≥0.45g/cm3
cage material	304SS, 316SS, PP, PVC or PTFE lining;
Flange	ANSI,JIS OR DIN form



Model	ISEN-UHC-C-Y Level gauge with level transmitter
Description	Basis on UHC-C, added level transmitter
C-C	100-15000mm
Working pressure	1.0, 1.6, 2.5, 4.0, 6.4, 10.0, 16MPa
Fluid temperature	-40~450°C
Transmitter's resolution	5mm, 10mm, 20mm select able
transmitter	4-20mA, RS485, Hart, LCD is select-able
Power supply	24VDC, Battery power
cage material	304SS, 316SS, PP, PVC or PTFE lining;
Remarks	<i>Normally junction box at top. bottom side, inform us.</i>



Model	ISEN-UHC-C-A Magnetic Float Level gauge with Switch
Measure ranges	100-15000mm
Measure accuracy	1.0, 1.6, 2.5, 4.0, 6.4, 10.0, 16MPa
Working pressure	±5mm
Fluid temperature	-40~ 45 0° C
Fluid density	≥0.45g/cm3
cage material	304SS, 316SS, 301SS, PP, PVC or PTFE lining;
switch types	Normally open (NO), normally close (NC), or SPDT type.

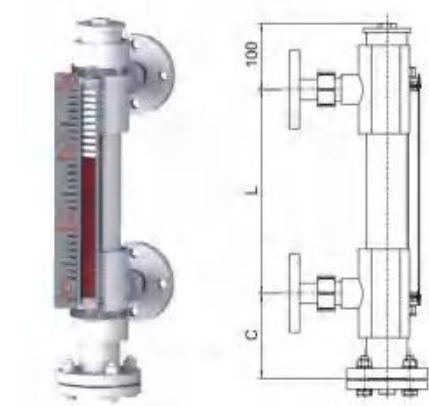


Model	ISEN-UHC-C-YA Level gauge with Switch & transmitter
Model Measure ranges	100-15000mm
Measure accuracy	±5mm
Working pressure	1.0, 1.6, 2.5, 4.0, 6.4, 10.0, 16MPa
Fluid temperature	-40~ 450 °C
Fluid density	≥0.45g/cm ³
cage material	304SS, 316SS, 301SS, PP, PVC or PTFE lining;
Transmitter	resolution 3mm (0-10V), or 5mm, 10mm, 20mm
Output	LCD, LED, 4-20mA, Hart, RS485 24VDC
switch types	Normally open (NO), normally close (NC), or SPDT type.



Model	ISEN-UHC-C-D Top mounted Level Gauge
Measure ranges	500-3000mm
Accuracy	±5mm
Working pressure	1.0, 1.6, 2.5MPa
Fluid temperature	-40~450°C
Fluid density	≥0.5g/cm ³
cage material	304SS, 316SS, PP, PVC
can add level switch	Normally open (NO), normally close (NC), or SPDT.
Transmitter	Resolution: 3mm (0-10V), 5mm, 10mm, 20mm; 24VDC

Model: ISEN-UHC-C-P plastic material float level gauge



Material	PP	PVC	PVDF
Chamber size	63*3/5.2	63*3	63*3
Working pressure	-0.1MPa ~ 0.5MPa		
Fluid temperature:	-20~+80°C	-20~+60°C	-20~ 200 °C
C-C distance	200-5000 mm		
Fluid viscosity	≤ 0.02Pa.S		
Options	1.can add level switch 2. Transmitter		

Magnetic level gauge without scale

Indicator color: Red/white; Black/Yellow

Indicator shell material: PC

Roller material: Nylon

Suitable temperature: 130 °C



ISEN-UHC-C-ZHK Vacuum Sealed magnetic level Indicator



Indicator type	Stainless Steel Sealed Type Indicator
Measure ranges	1.0, 1.6, 2.5, 4.0, 6.4, 10.0, 16MPa
Working pressure	100-15000ms
Fluid temperature:	-20~+200°C, -20~+350°C
Fluid density	≥0.5g/cm ³
cage material	304SS, 316SS, PP, PVC
Fluid viscosity	≤14m/s
Options	1.can add level switch 2. Transmitter 3. indicator color: a. Red/white, b.Yellow/Black

ISEN-UHC-F PTFE lining Float level gauge



Material	Stainless steel lined with PTFE
Chamber size	φ55*(2mm+ PTFE 2.5mm)
Working pressure	-0.1MPa ~ 2.5MPa
Fluid temperature:	-20~+20 °C
C-C distance Fluid	200-5000 mm
viscosity	≤ 0.02Pa.S
Connection	Flange DN25, DN50
Options	1.can add level switch 2. Transmitter

UHC-C-E Magnetic Level Gauge with LED indicator

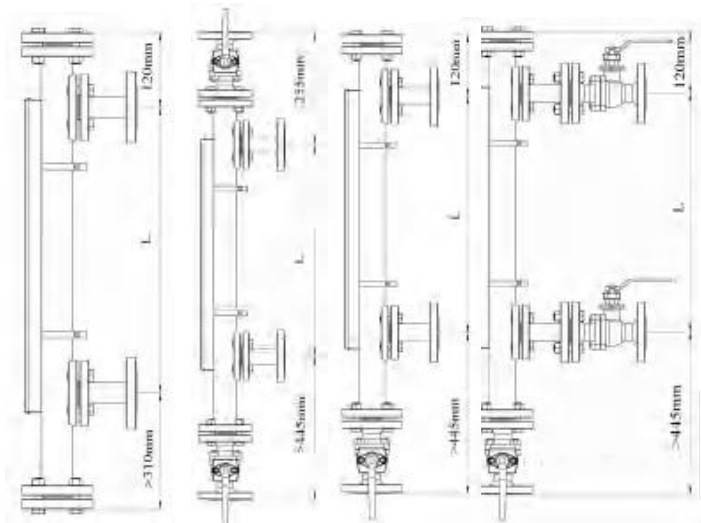
The LED indicator with light.

Suitable temperature: < 350°C,

power supply: 220 VAC



Can add PTFE lining ball valves as bellow types:



Type A

Type B

Type C

Type D

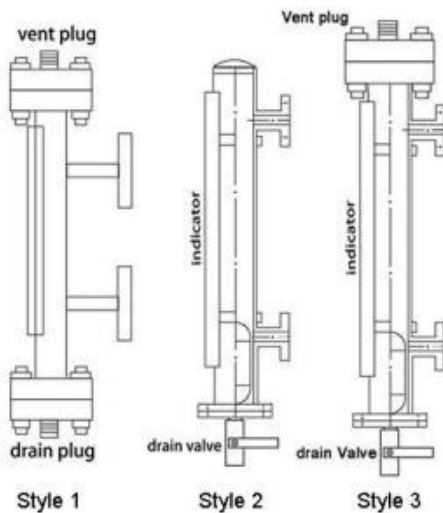
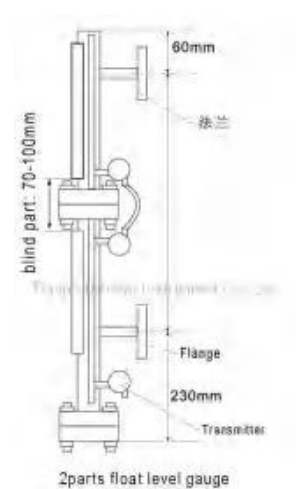
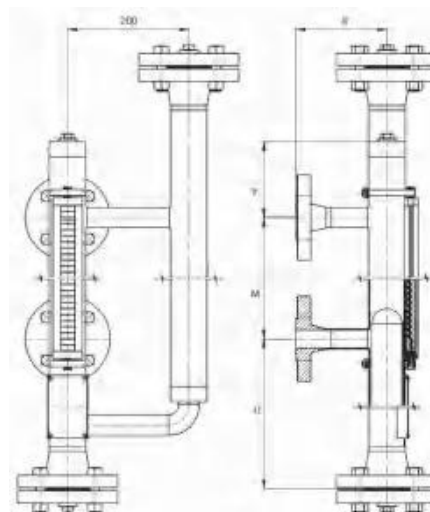
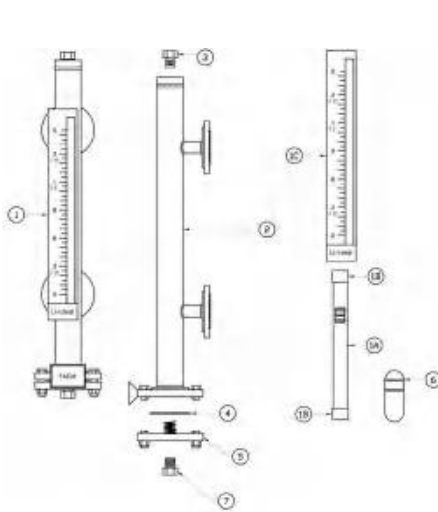


Style H Tank or Sump Level Indication



Style I Dual Indication for total interface level detection

Typical structure

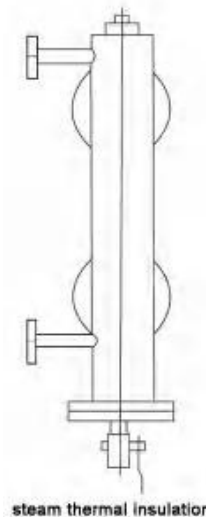


Style 1

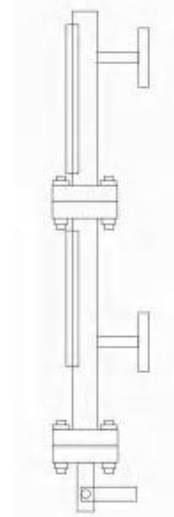
Style 2

Style 3

Style 4



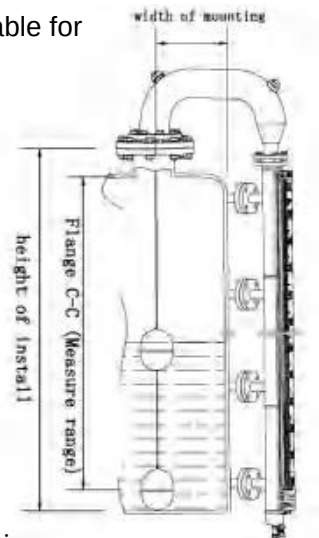
steam thermal insulation



ISEN-UHC – V Side-top mounted high viscous liquid Float & board level gauge for Pressure Vessel

ISEN-UHC-V side-top mounted high viscous liquid Float level gauge is suitable for heavy oil, crude oil, resin of high viscosity liquid level detection.

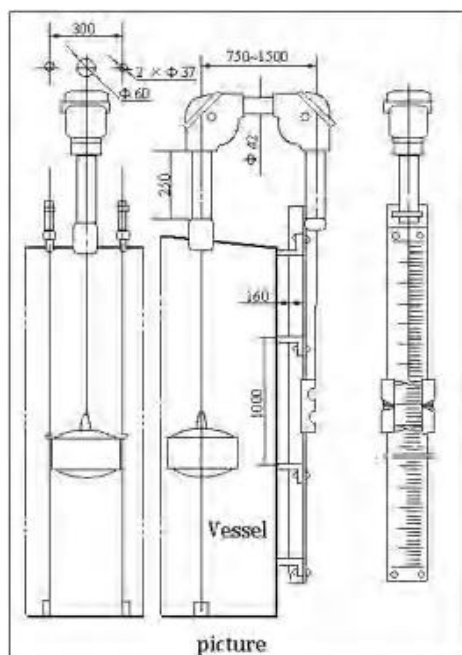
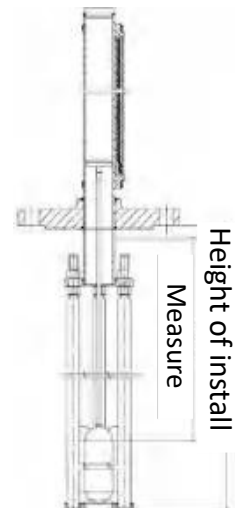
- ☐ C-C: 500 ~ 10000 mm, other length can be section made.
- ☐ Chamber tube material: 304SS; 316SS; 316L
- ☐ Working pressure: 0 ~ 1.6 MPa
- ☐ Medium density: 0.65 ~ 2.0 g/cm³
- ☐ Medium viscosity: 1.5 Pa s. or less
- ☐ Level Transmitter: output 4-20mA and switch opinion.



Top mounted vaporizing fluid float level gauge

ISEN-UHC-T Top mounted vaporizing fluid special using magnetic float level gauge is suitable for easy vaporization liquid in pressure vessels, especially for buried tank of such as liquefied petroleum gas, methane. It contains **three pure titanium floats** and unique guide rail structure, is widely used in **LPG stations**.

- ☐ Measuring range: 300 ~ 3000 mm.
- ☐ Lead tube material: stainless steel 304SS; 316SS;
- ☐ Float material: Titanium
- ☐ Working pressure: -0.1 ~ 4 MPa
- ☐ Working temperature: -80 ~ 80 °C
- ☐ Medium density: 0.4 ~ 1.2 g/cm³
- ☐ Medium viscosity: 0.4 Pa s.



Float & Board Level Gauge

It works by a float ball floating on the liquid, stainless steel rope and magnetic flappers moves with liquid level up and down.

Technique Information:

Measure range: < 25m

Indicator error: < 20mm

Working pressure: ambient

Fluid temperature: < 400 °C

Medium density: > 0.6g/cm³

Connection method: flange or threaded