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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.

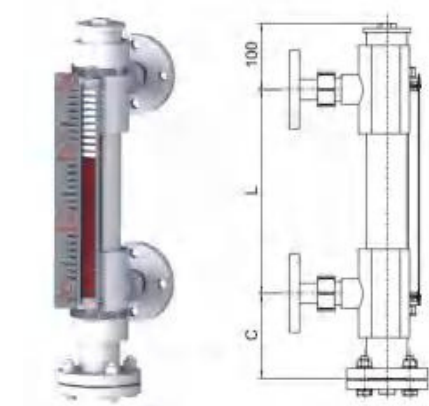


Model	ISEN-UHC-C-YA Level gauge with Switch & transmitter
Model Measure ranges	100-15000mm
Measure accuracy	±5mm
Working pressure	1.0, 1.6, 2.5, 4.0, 6.4, 10.0, 16MPa
Fluid temperature	-40~ 450 °C
Fluid density	≥0.45g/cm ³
cage material	304SS, 316SS, 301SS, PP, PVC or PTFE lining;
Transmitter	resolution 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 0°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

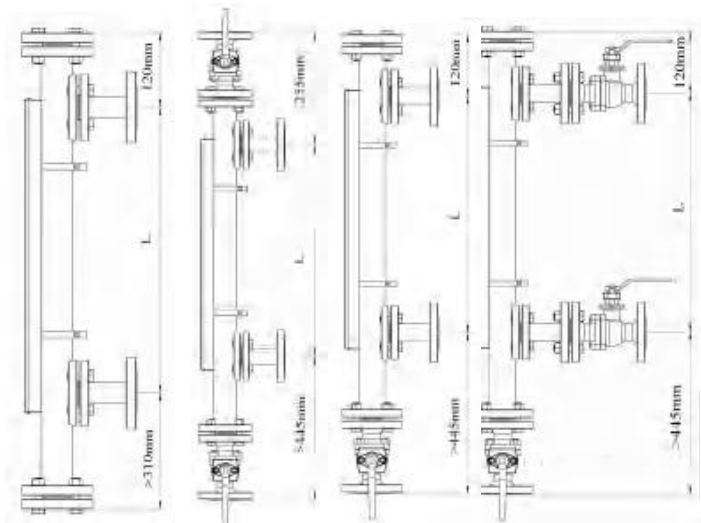
The LED indicator with light.

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

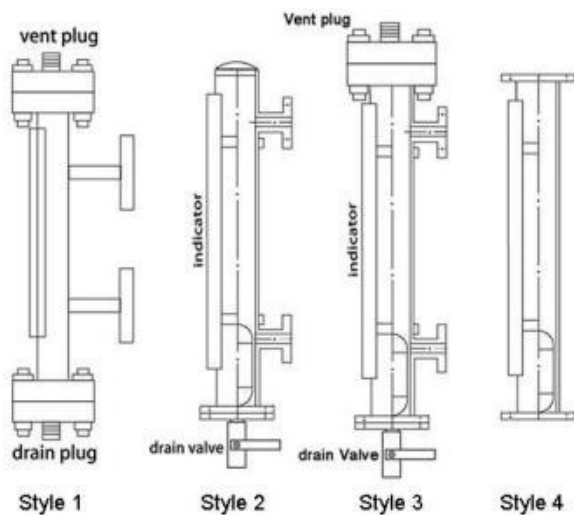
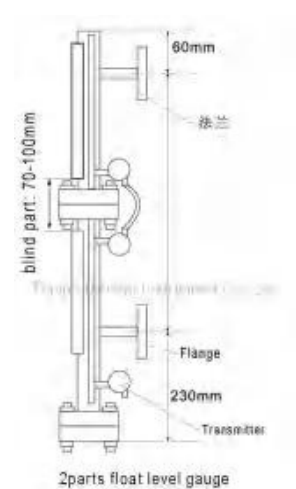
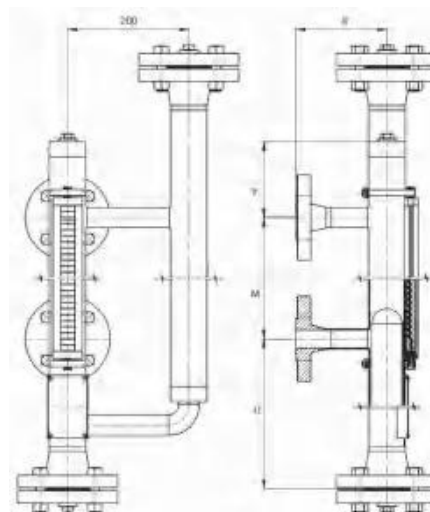
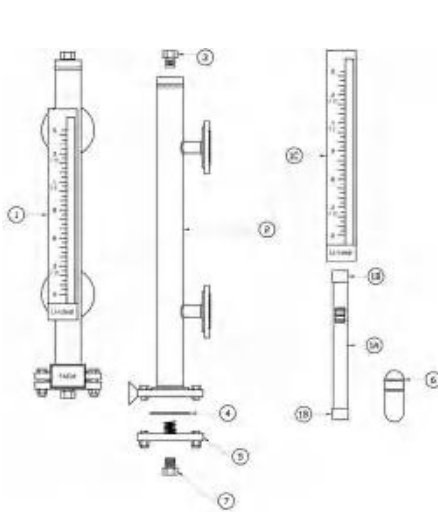


Style H Tank or Sump Level Indication



Style I Dual Indication for total interface level detection

Typical structure

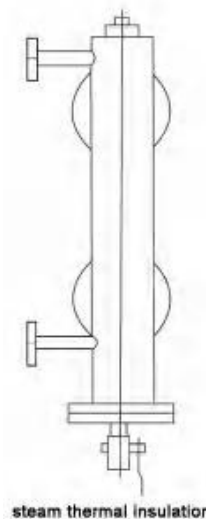


Style 1

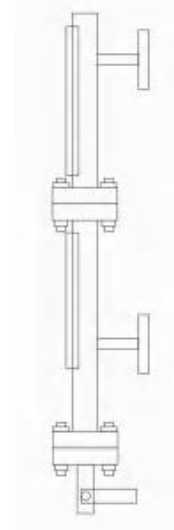
Style 2

Style 3

Style 4



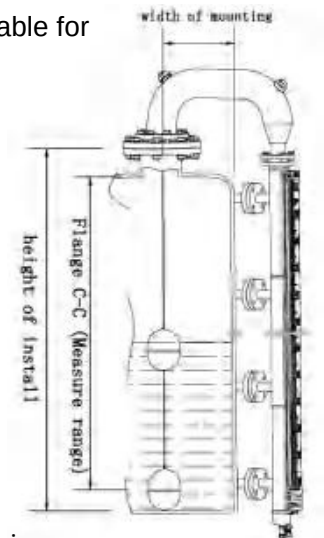
steam thermal insulation



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.

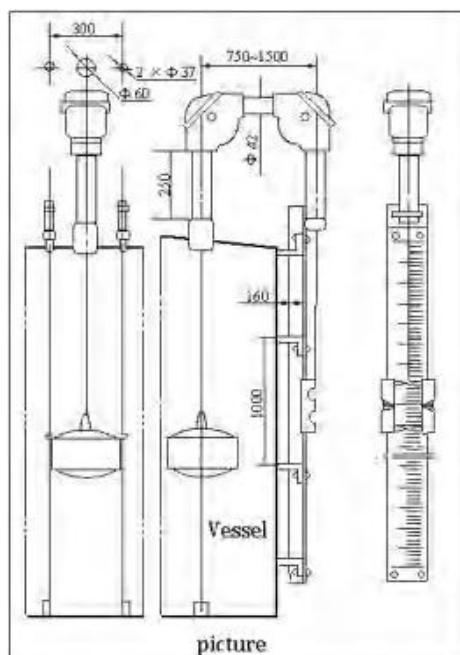
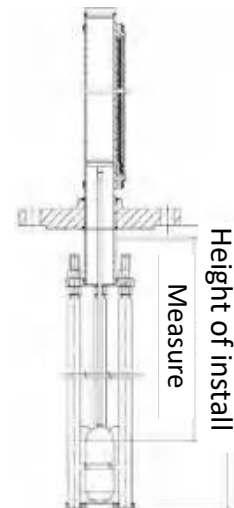
- ☐ C-C: 500 ~ 10000 mm, other length can be section made.
- ☐ Chamber tube material: 304SS; 316SS; 316L
- ☐ Working pressure: 0 ~ 1.6 MPa
- ☐ Medium density: 0.65 ~ 2.0 g/cm³
- ☐ Medium viscosity: 1.5 Pa s. or less
- ☐ Level Transmitter: output 4-20mA and switch opinion.



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

2. Top Mounted Magnetic Float Level Transmitter



1) ISEN-UQK-B Liquid level transmitter.

ISEN-UQK-B type liquid level transmitter is used for level test and remote control. There is chain of resistance, the transmitter convert the resistance signal to 4-20 mA, and add secondary can set the switch position freely. Type of field LED display + “4-20mA” indicator the true level continuously, and also connect with PLC/DCS or Recorders. The 4~20mA signal can transmit in the scope of 0~3Km

Select the floater types according to the working temperature, pressure, specific gravity and acid-base properties.

Temperature suitable: PVC material $\leq 80\text{ }^{\circ}\text{C}$; PVDF $\leq 120\text{ }^{\circ}\text{C}$; SUS304/316L $\leq 120\text{ }^{\circ}\text{C}$

Pressure: Plastic series floater $\leq 5\text{kg/cm}$. SUS304/316L $\leq 40\text{kg/cm}$.

Acid-base properties: polypropylene (PP) is suitable for strong acid and alkali environment; if strong acid and alkali environment temperature is higher than $80\text{ }^{\circ}\text{C}$, should choose PVDF material.

Medium like Alcohol, oils, etc.: Recommend to use stainless steel material, for the food industry need choose sanitary level material SUS316L.

2) Customer order table

Item of ISEN-UQK-B	Technical parameter	Your choice
Measure range	200-8000mm any length on order	
Indicator & Output	A.0~4k Ω ; B.4~20mA24VDC2-wire; C.Hart,LCD D.Battery power with field display	
Resolution	A.20mm; B.10mm; C.7mm; D.5mm	
Fluid Density	$\geq 0.45\text{g/cm}^3$ (tell us your density)	
Fluid temperature	$< 120\text{ }^{\circ}\text{C}$ degree	
Process pressure	$< 1.6\text{MPa}$ or on order	
Process connection	Flange, Threaded, or assemble external of level gauge	
Material	SS304, SS316, PTFE	
Leading tube OD	$\Phi 19\text{mm}$, $\Phi 8\text{mm}$	
Floater ball OD size		

3. GlassplateLevelGauge

The Reflex Liquid Level Gauge

The is used to see the level of the liquid in a vessel or tank. The gauge glass has three V-shaped grooves. The prism effect makes the gaseous phase look white, whereas in the liquid phase, the diffused reflection disappears making it look quite dark. This means that the liquid level can be seen clearly.

See-Thru (Transparent) Liquid Level Gauge

This unit is used to see the level, color, or clarity of the liquid in a vessel or tank. This gauge uses two layers of gauge glass, and is constructed so that users can see through to the opposite side. The gauge can be protected with mica or fluorine resin which prevents the alkaline corrosion of the glass. The gauge also uses a lighting system to make it easier for users to measure the liquid level, and its structure is more resistant to pressure than the reflex liquid level gauge.

Pictures and description of different models

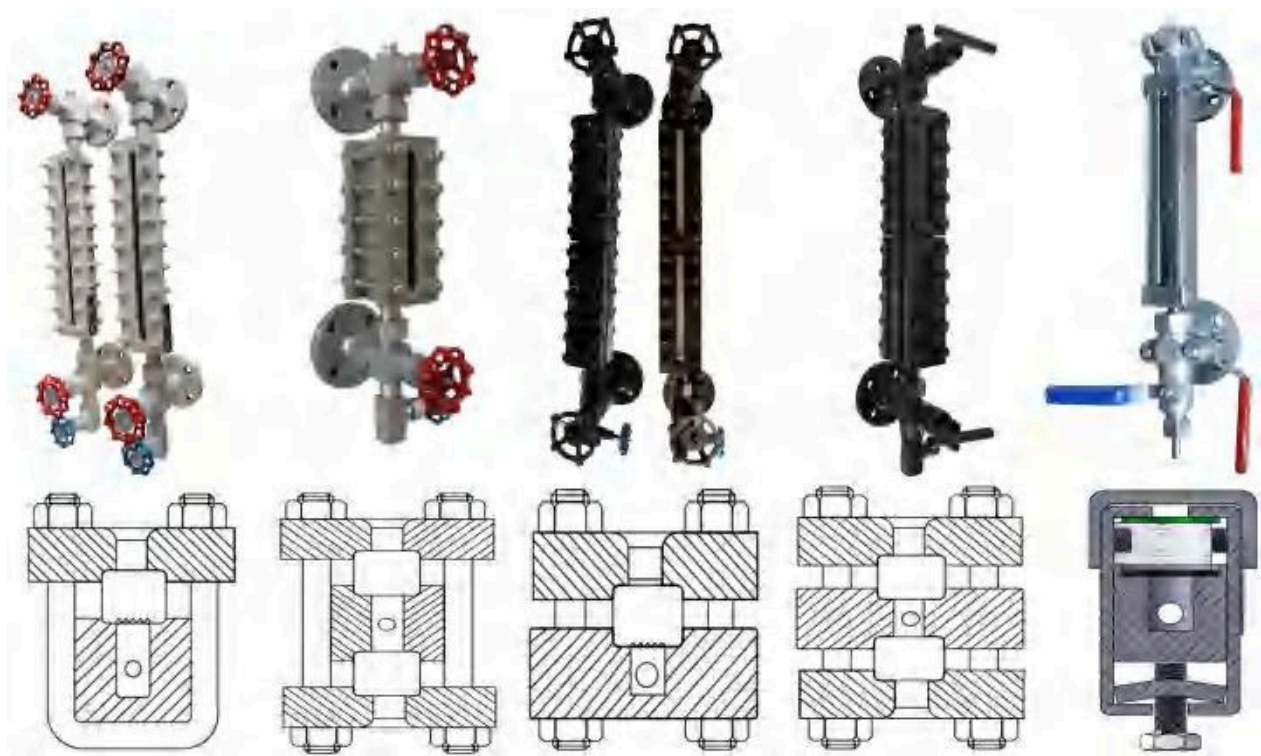
ISEN-TBS-F

ISEN-TBS-A

ISEN-UI-CV-F-HF

ISEN-UI-CV-F-HT

ISEN-RFL-40C



Glass Size

Borosilicate

Mica sheet +Alumina-silicate glass



Unit: mm

No.	B1	A1	B2	A2	B3	A3	B4	A4	B5	A5	B6	A6	B7	A7	B8	A8	B9	A9
Length	115		140		165		190		220		250		280		320		340	
Width	34	30	34	30	34	30	34	30	34	30	34	30	34	30	34	30	34	30
Thickness	17		17		17		17		17		17		17		17		17	

Main technical parameters

Model	ISEN-TBS-F	ISEN-TBS-A	ISEN-UI-CV-F-HF	ISEN-UI-CV-F-HT	ISEN-RFL-40C
Type	Reflex	Transparent	Highpressure reflex	Highpressure Transparent	90 degree Quick open/close
C-C (mm)	300-3600				285-2590
Visible Length (mm)	95-3360				141-2433
Gauge Material	CS、SS304、SS316L、Ti、 etc				Cast steel
Glass Size	A1-A9, B1-B9				A1-A9
Glass Material	Borosilicate; Alumina-silicate				
Gasket Type	Graphite composite gasket; non-Asbestos gasket; Mica seal components				
suitable temperature	≤450℃				
Working pressure (Bar)	40 (Groove glass) 100 (Plate glass)	100(Plate glass)	40 (Groove glass) 160(Plate glass)	160 (Plateglass)	40 (Groove glass)

Gauge Valve main technical parameters



UI-CV-F offset valve

UI-CV-S straight

RFL-40 Quick close

Suitable tube diameter: $\varnothing$ 18mm, $\varnothing$ 16mm

Model	ISEN-UI-CV-F	ISEN-UI-CV-S	ISEN-RFL-40
Type	OffsetValve 360°turn	StraightGaugeValve 360°turn	90° QuickOpen/CloseGaugeValve
Valve body	Forgingsteel	CS,SS304,SS316L,Ti	Caststeel
Valve rod Material	2Cr13 / SS316L		
Sealing Material	Graphite		
Working temperature	$\leq 450^{\circ}\text{C}$		
Working pressure (Bar)	40(Grooveglass) 160(Plateglass)	40(Grooveglass) 100(Plateglass)	40 (Groove glass)
Connection mode	Flange;Thread;welding		Flange:DN15DN20DN25,3/4"1"1-1/4"
Connection standard	ANSI、DIN、GB、JIS; NPT、BSPT、G、ZG;		ANSI、DIN、GB、JIS;
Apply to	ISEN- TBS-F/TBS-A/TBS-HR/TBS-HT/RFL-40C		ISEN-TBS-F/TBS-A/RFL-40C

Brass Gauge Valve for glass tube

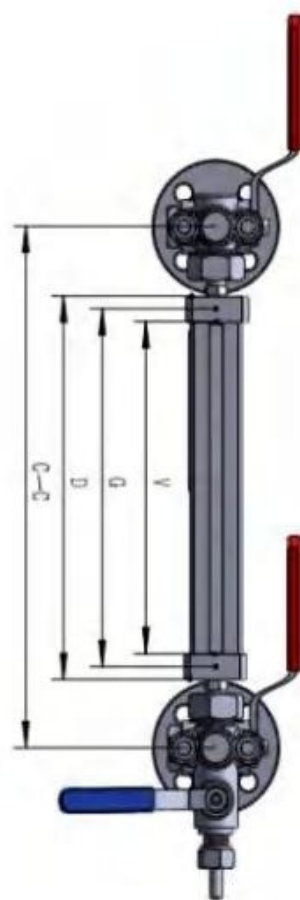
		
1/2" BSP suitable for glass tube OD15mm 3/4" BSP suitable for glass tube OD18mm Net weight: 2.1 kg	1/2" BSP suitable for glass tube OD15mm, weight: 520g/set Size: 3/4" BSP suitable for glass tube OD15mm, weight: 550g/set	G1/2" tube size: OD13mm 270g/set G3/4" tube size: OD18mm 285g/set

Model: ISEN-RFL-40C Reflex Level Gauge

Pressure	<4MPa	Temperature	<250 C, <450 C
Material	Carbon Steel	Flange	DN15 DN20 DN25, 3/4" 1" 1-1/4"



Model	Min C-C	Body D	visible length V(+2/0)	Glass length G	section	blind part
11	235	128	91	115	1	144
12	260	153	116	140	1	144
13	285	178	141	165	1	144
14	310	203	166	190	1	144
15	340	233	196	220	1	144
16	370	263	226	250	1	144
17	400	293	256	280	1	144
18	440	333	296	320	1	144
19	460	353	313	340	1	147
24	515	406	367	190	2	148
25	575	466	427	220	2	148
26	635	526	489	250	2	146
27	695	586	549	280	2	146
28	775	666	628	320	2	147
29	815	706	668	340	2	147
36	900	789	751	250	3	149
37	990	879	841	280	3	149
38	1110	999	961	320	3	149
39	1170	1059	1021	340	3	149
47	1285	1172	1134	280	4	151
48	1445	1332	1294	320	4	151
49	1525	1412	1374	340	4	151
57	1580	1465	1427	280	5	153
58	1780	1665	1627	320	5	153
59	1880	1765	1727	340	5	153
68	2115	1998	1960	320	6	155
69	2235	2118	2080	340	6	155
79	2590	2471	2433	340	7	157



Model: ISEN-RLF-40FC Reflex Level Gauge

Pressure	<4MPa	Temperature	<250 C, <450 C
Material	Carbon Steel	Flange	DN15 DN20 DN25, 3/4" 1" 1-1/4"



Model	Min C-C	BodyD	Visiblelength V(+2/0)	Glasslength G	section	Blind part
11	235	128	91	115	1	144
12	260	153	116	140	1	144
13	285	178	141	165	1	144
14	310	203	166	190	1	144
15	340	233	196	220	1	144
16	370	263	226	250	1	144
17	400	293	256	280	1	144
18	440	333	296	320	1	144
19	460	353	313	340	1	147
24	515	406	367	190	2	148
25	575	466	427	220	2	148
26	635	526	489	250	2	146
27	695	586	549	280	2	146
28	775	666	628	320	2	147
29	815	706	668	340	2	147
36	900	789	751	250	3	149
37	990	879	841	280	3	149
38	1110	999	961	320	3	149
39	1170	1059	1021	340	3	149
47	1285	1172	1134	280	4	151
48	1445	1332	1294	320	4	151
49	1525	1412	1374	340	4	151
57	1580	1465	1427	280	5	153
58	1780	1665	1627	320	5	153
59	1880	1765	1727	340	5	153
68	2115	1998	1960	320	6	155
69	2235	2118	2080	340	6	155
79	2590	2471	2433	340	7	157

Model: ISEN-RFL-40HFC Reflex Level Gauge

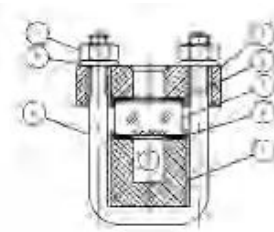
Pressure	<4MPa	Temperature	<250 C, <450 C
Material	Carbon Steel	Flange	DN15 DN20 DN25, 3/4" 1" 1-1/4"



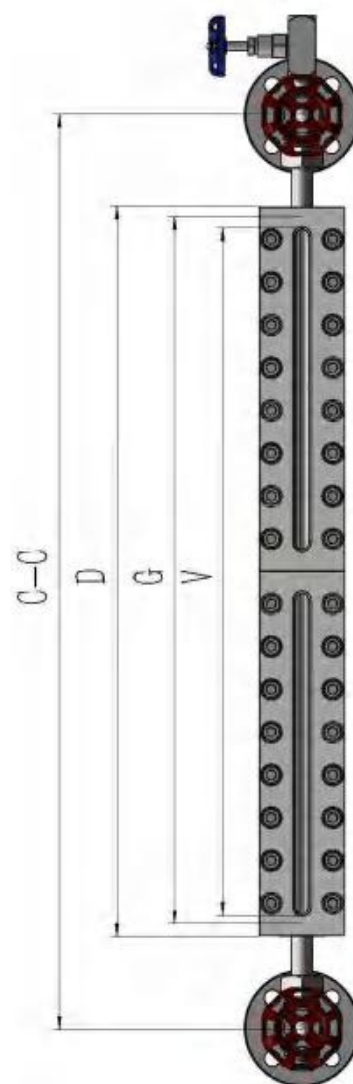
Model	Min C-C	Body D	Visiblelength V(+2/0)	Glasslength G	section	Blind part
11	235	128	91	115	1	144
12	260	153	116	140	1	144
13	285	178	141	165	1	144
14	310	203	166	190	1	144
15	340	233	196	220	1	144
16	370	263	226	250	1	144
17	400	293	256	280	1	144
18	440	333	296	320	1	144
19	460	353	313	340	1	147
24	515	406	367	190	2	148
25	575	466	427	220	2	148
26	635	526	489	250	2	146
27	695	586	549	280	2	146
28	775	666	628	320	2	147
29	815	706	668	340	2	147
36	900	789	751	250	3	149
37	990	879	841	280	3	149
38	1110	999	961	320	3	149
39	1170	1059	1021	340	3	149
47	1285	1172	1134	280	4	151
48	1445	1332	1294	320	4	151
49	1525	1412	1374	340	4	151
57	1580	1465	1427	280	5	153
58	1780	1665	1627	320	5	153
59	1880	1765	1727	340	5	153
68	2115	1998	1960	320	6	155
69	2235	2118	2080	340	6	155
79	2590	2471	2433	340	7	157

Model: ISEN-TBS-F Reflex Level Gauge

Pressure	<4MPa	Temperature	<250 C, <450 C
Material	Carbon Steel, stainless steel	Flange	DN15 DN20 DN25, DN40, DN50, 3/4", 1", 1-1/4", 1.5", 2"

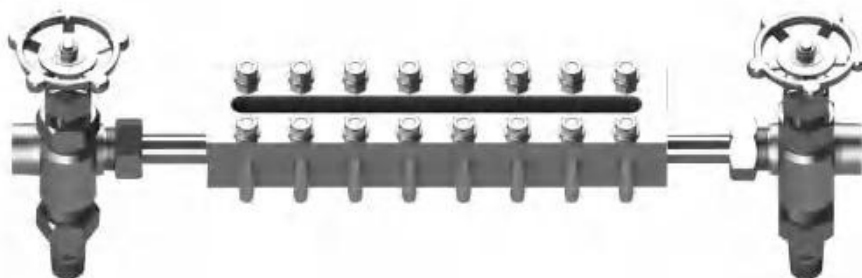


Model	Min C-C	Body D	visible length V(+2/0)	Glass length G	section	blind part
L-1	239	135	95	115	1	144
L-2	264	160	120	140	1	144
L-3	289	185	145	165	1	144
L-4	314	210	170	190	1	144
L-5	344	240	200	220	1	144
L-6	374	270	230	250	1	144
L-7	404	300	260	280	1	144
L-8	444	340	300	320	1	144
L-9	464	360	320	340	1	144
L-10	524	420	380	190	2	144
L-11	584	480	440	220	2	144
L-12	644	540	500	250	2	144
L-13	704	600	560	280	2	144
L-14	784	680	640	320	2	144
L-15	824	720	680	340	2	144
L-16	914	810	770	250	3	144
L-17	1004	900	860	280	3	144
L-18	1124	1020	980	320	3	144
L-19	1184	1080	1040	340	3	144
L-20	1304	1200	1160	280	4	144
L-21	1464	1360	1320	320	4	144
L-22	1544	1440	1400	340	4	144
L-23	1604	1500	1460	280	5	144
L-24	1804	1700	1660	320	5	144
L-25	1904	1800	1760	340	5	144
L-26	2144	2040	2000	320	6	144
L-27	2264	2160	2120	340	6	144
L-28	2624	2520	2480	340	7	144

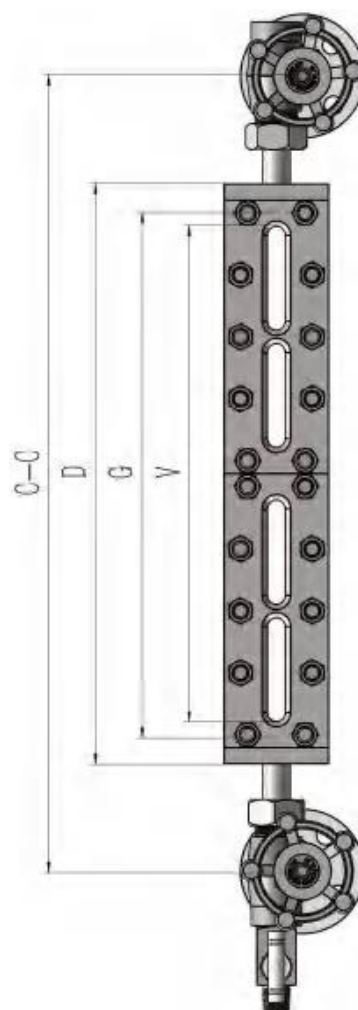


Model: ISEN-UI-CV-F-LF Reflex Level Gauge

Pressure	4MPa, 7MPa, <16MPa	Temperature	<250 C, <450 C
Material	Carbon steel, Stainless steel	Connection	DN15 DN20 DN25, DN40, DN50, 3/4", 1", 1-1/4", 1.5", 2"
glass	Borosilicate or Al-Si glass	Connection type	Flange, Screw or other



Model	Min C-C	Body D	visible Length V(+2/0)	Glass length G	section	Blind part
H-1	286	135	90	115	1	196
H-2	311	160	115	140	1	196
H-3	336	185	140	165	1	196
H-4	361	210	165	190	1	196
H-5	391	240	195	220	1	196
H-6	421	270	225	250	1	196
H-7	451	300	255	280	1	196
H-8	521	370	325	165	2	196
H-9	571	420	375	190	2	196
H-10	631	480	435	220	2	196
H-11	691	540	495	250	2	196
H-12	751	600	555	280	2	196
H-13	781	630	585	190	3	196
H-14	871	720	675	220	3	196
H-15	961	810	765	250	3	196
H-16	1051	900	855	280	3	196
H-17	1111	960	915	220	4	196
H-18	1231	1080	1035	250	4	196
H-19	1351	1200	1155	280	4	196
H-20	1351	1200	1155	220	5	196
H-21	1501	1350	1305	250	5	196
H-22	1591	1440	1395	220	6	196
H-23	1651	1500	1455	280	5	196
H-24	1771	1620	1575	250	6	196
H-25	1951	1800	1755	280	6	196
H-26	2041	1890	1845	250	7	196
H-25	2251	2100	2055	280	7	196

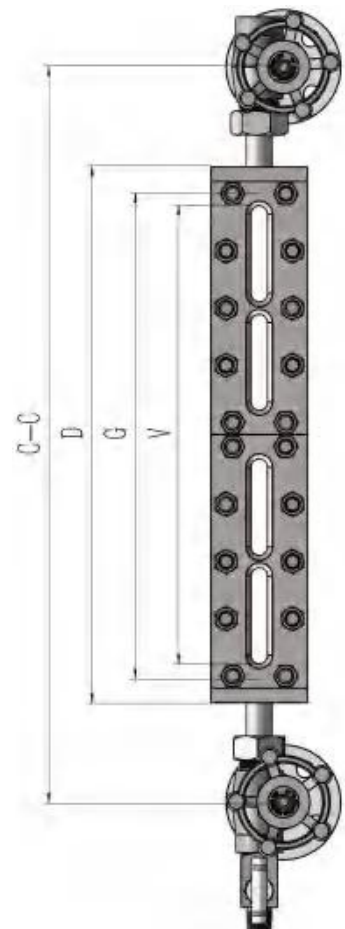


Model: ISEN-UI-CV-F-HF Reflex Level Gauge

Pressure	4MPa, 7MPa, <16MPa	Temperature	<250 C, <450 C
Material	Carbon steel, Stainless steel	Connection	DN15 DN20 DN25, DN40, DN50
glass	Borosilicate or Al-Si glass	Connection type	Flange, Screw or other



Model	Min C-C	Body D	Visible Length V(+2/0)	Glass Length G	section	Blind part
H-1	286	135	90	115	1	196
H-2	311	160	115	140	1	196
H-3	336	185	140	165	1	196
H-4	361	210	165	190	1	196
H-5	391	240	195	220	1	196
H-6	421	270	225	250	1	196
H-7	451	300	255	280	1	196
H-8	521	370	325	165	2	196
H-9	571	420	375	190	2	196
H-10	631	480	435	220	2	196
H-11	691	540	495	250	2	196
H-12	751	600	555	280	2	196
H-13	781	630	585	190	3	196
H-14	871	720	675	220	3	196
H-15	961	810	765	250	3	196
H-16	1051	900	855	280	3	196
H-17	1111	960	915	220	4	196
H-18	1231	1080	1035	250	4	196
H-19	1351	1200	1155	280	4	196
H-20	1351	1200	1155	220	5	196
H-21	1501	1350	1305	250	5	196
H-22	1591	1440	1395	220	6	196
H-23	1651	1500	1455	280	5	196
H-24	1771	1620	1575	250	6	196
H-25	1951	1800	1755	280	6	196
H-26	2041	1890	1845	250	7	196
H-25	2251	2100	2055	280	7	196

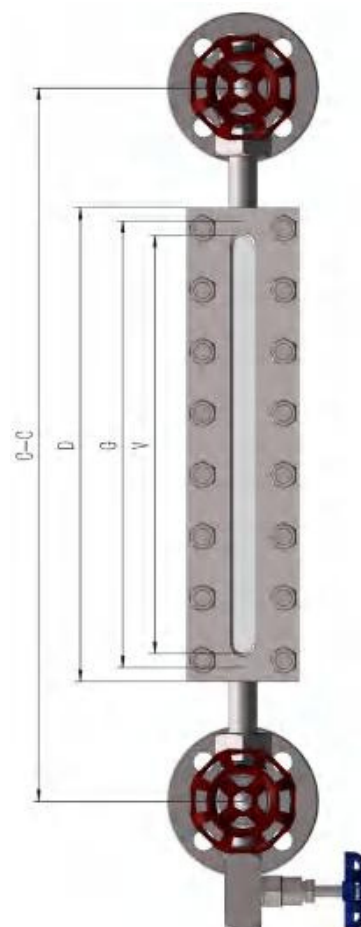


Model: TBS-A Transparent Level Gauge

Pressure	<7MPa, <16MPa	Temperature	<250 C, <450 C
Material	Carbon steel, Stainless steel	Flange	DN15 DN20 DN25, DN40, DN50, 3/4", 1", 1-1/4", 1.5", 2"



Model	Min C-C	Body D	visible length V(+2/0)	Glass length G	section	blind part
M-1	273	135	95	115	1	178
M-2	298	160	120	140	1	178
M-3	323	185	145	165	1	178
M-4	348	210	170	190	1	178
M-5	378	240	200	220	1	178
M-6	408	270	230	250	1	178
M-7	438	300	260	280	1	178
M-8	478	340	300	320	1	178
M-9	498	360	320	340	1	178
M-10	558	420	380	190	2	178
M-11	618	480	440	220	2	178
M-12	678	540	500	250	2	178
M-13	738	600	560	280	2	178
M-14	818	680	640	320	2	178
M-15	858	720	680	340	2	178
M-16	948	810	770	250	3	178
M-17	1038	900	860	280	3	178
M-18	1158	1020	980	320	3	178
M-19	1218	1080	1040	340	3	178
M-20	1338	1200	1160	280	4	178
M-21	1498	1360	1320	320	4	178
M-22	1578	1440	1400	340	4	178
M-23	1638	1500	1460	280	5	178
M-24	1838	1700	1660	320	5	178
M-25	1938	1800	1760	340	5	178
M-26	2178	2040	2000	320	6	178
M-27	2298	2160	2120	340	6	178
M-28	2658	2520	2480	340	7	178



Welcome to contact us for Other size.

Model: ISEN-RFL-40AC Transparent Level Gauge

Pressure	<4MPa	Temperature	<250 C, <450 C
Material	Carbon Steel	Flange	DN15 DN20 DN25, 3/4" 1" 1-1/4"



Model	MinC-C	Body D	Visiblelength V(+2/0)	Glasslength G	section	Blind part
11	235	128	91	115	1	144
12	260	153	116	140	1	144
13	285	178	141	165	1	144
14	310	203	166	190	1	144
15	340	233	196	220	1	144
16	370	263	226	250	1	144
17	400	293	256	280	1	144
18	440	333	296	320	1	144
19	460	353	313	340	1	147
24	515	406	367	190	2	148
25	575	466	427	220	2	148
26	635	526	489	250	2	146
27	695	586	549	280	2	146
28	775	666	628	320	2	147
29	815	706	668	340	2	147
36	900	789	751	250	3	149
37	990	879	841	280	3	149
38	1110	999	961	320	3	149
39	1170	1059	1021	340	3	149
47	1285	1172	1134	280	4	151
48	1445	1332	1294	320	4	151
49	1525	1412	1374	340	4	151
57	1580	1465	1427	280	5	153
58	1780	1665	1627	320	5	153
59	1880	1765	1727	340	5	153
68	2115	1998	1960	320	6	155
69	2235	2118	2080	340	6	155
79	2590	2471	2433	340	7	157

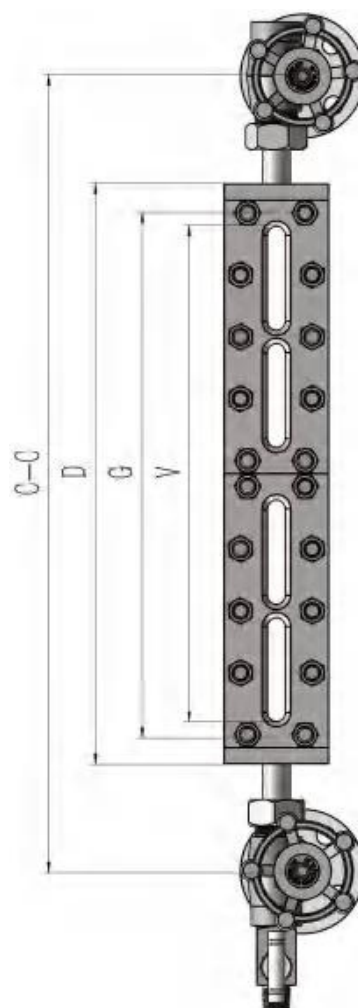
Other size can be design.

Model: UI-CV-F-A Transparent Level Gauge

Pressure	<16MPa	Temperature	<250 C, <450 C
Material	Forged steel	Flange	DN15 DN20 DN25, DN40, DN50, 3/4", 1", 1-1/4", 1.5", 2"



Model	MinC-C	Body D	visible Length V(+2/0)	Glass length G	section	Blind part
H-1	286	90	135	115	1	196
H-2	311	115	160	140	1	196
H-3	336	140	185	165	1	196
H-4	361	165	210	190	1	196
H-5	391	195	240	220	1	196
H-6	421	225	270	250	1	196
H-7	451	255	300	280	1	196
H-8	521	325	370	165	2	196
H-9	571	375	420	190	2	196
H-10	631	435	480	220	2	196
H-11	691	495	540	250	2	196
H-12	751	555	600	280	2	196
H-13	781	585	630	190	3	196
H-14	871	675	720	220	3	196
H-15	961	765	810	250	3	196
H-16	1051	855	900	280	3	196
H-17	1111	915	960	220	4	196
H-18	1231	1035	1080	250	4	196
H-19	1351	1155	1200	280	4	196
H-20	1501	1305	1350	250	5	196
H-21	1651	1455	1500	280	5	196
H-22	1771	1575	1620	250	6	196
H-23	1951	1755	1800	280	6	196
H-24	2041	1845	1890	250	7	196
H-25	2251	2055	2100	280	7	196



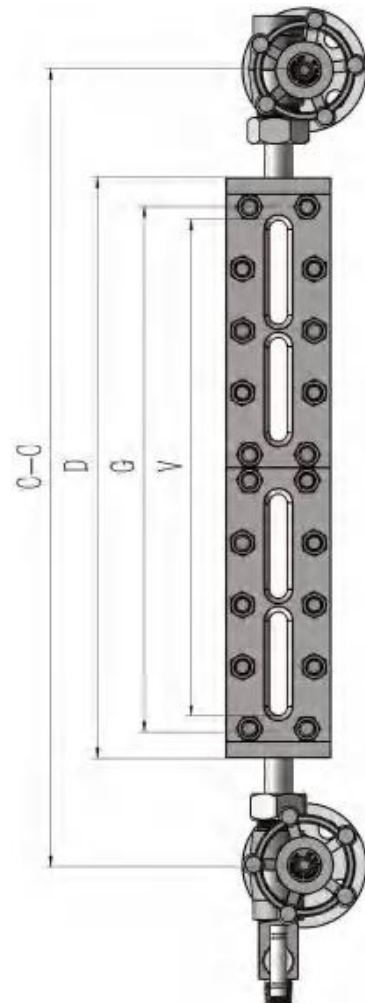
Other size can be design, too.

Model: ISEN-UI-CV-F-HT Transparent Level Gauge

Pressure	<16MPa	Temperature	<250 C, <450 C
Material	Forged steel	Flange	DN15 DN20 DN25,DN40,DN50, 3/4", 1", 1-1/4", 1.5", 2"



Model	Min C-C	Body D	visible Length V(+2/0)	Glass length G	section	Blind part
H-1	286	135	90	115	1	196
H-2	311	160	115	140	1	196
H-3	336	185	140	165	1	196
H-4	361	210	165	190	1	196
H-5	391	240	195	220	1	196
H-6	421	270	225	250	1	196
H-7	451	300	255	280	1	196
H-8	521	370	325	165	2	196
H-9	571	420	375	190	2	196
H-10	631	480	435	220	2	196
H-11	691	540	495	250	2	196
H-12	751	600	555	280	2	196
H-13	781	630	585	190	3	196
H-14	871	720	675	220	3	196
H-15	961	810	765	250	3	196
H-16	1051	900	855	280	3	196
H-17	1111	960	915	220	4	196
H-18	1231	1080	1035	250	4	196
H-19	1351	1200	1155	280	4	196
H-20	1351	1200	1155	220	5	196
H-21	1501	1350	1305	250	5	196
H-22	1591	1440	1395	220	6	196
H-23	1651	1500	1455	280	5	196
H-24	1771	1620	1575	250	6	196
H-25	1951	1800	1755	280	6	196
H-26	2041	1890	1845	250	7	196
H-25	2251	2100	2055	280	7	196



Other size can be produced on order.

Non-blind type glass plate level gauge

Pressure	<16MPa	Temperature	<250C,<450C
Material	Forged steel	Flange	DN15DN20DN25,DN40,DN50, 3/4", 1", 1-1/4", 1.5", 2"



ISEN-TBS-FW blindless Reflex Level Gauge



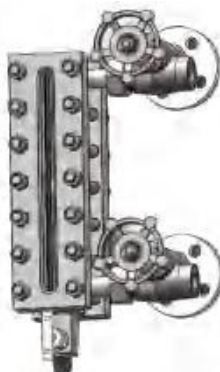
ISEN-TBS-AW Transparent Level Gauge



ISEN-TBS-FWH high pressure
Reflex Level Gauge



ISEN-CVF-TWH high pressure wide
chamber transparent level gauge



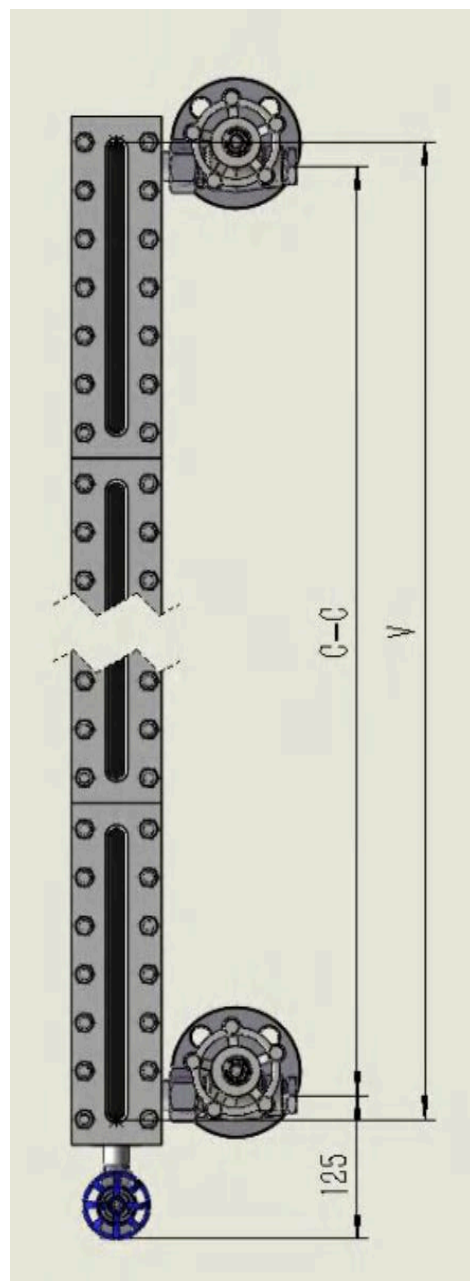
ISEN-CVF-TW Transparent level gauge



ISEN-CVF-TW transparent level gauge

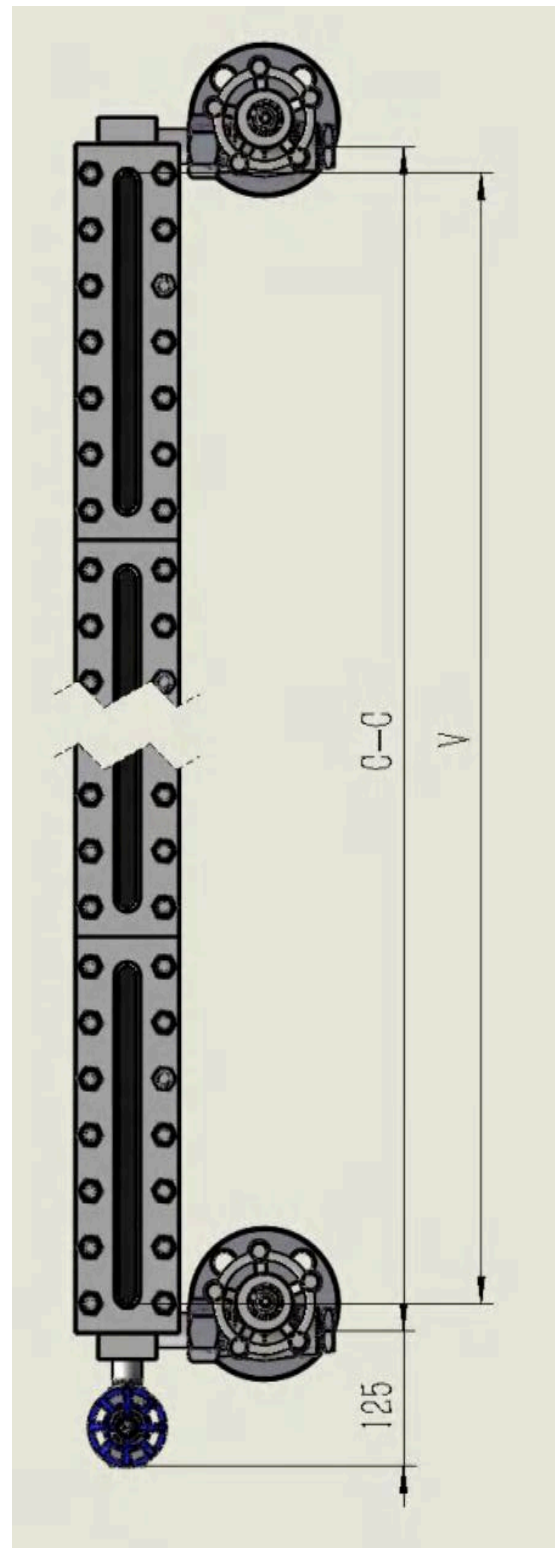
Non-blind type glass plate level gauge dimensions (Visible length > C to C distance)

Model	C-C	visible	Glass	section
		Length	length	
		V(+2/0)	G	
H-1	55	90	115	1
H-2	80	115	140	1
H-3	105	140	165	1
H-4	130	165	190	1
H-5	160	195	220	1
H-6	190	225	250	1
H-7	220	255	280	1
H-8	240	275	300	1
H-9	260	295	320	1
H-10	280	315	340	1
H-11	290	325	165	2
H-12	340	375	190	2
H-13	400	435	220	2
H-14	460	495	250	2
H-15	520	555	280	2
H-16	550	585	190	3
H-17	560	595	300	2
H-18	600	635	320	2
H-19	640	675	340	2
H-20	640	675	220	3
H-21	730	765	250	3
H-22	820	855	280	3
H-23	880	915	220	4
H-24	940	975	320	3
H-25	1000	1035	250	4
H-26	1120	1155	280	4
H-27	1200	1235	300	4
H-28	1270	1305	250	5
H-29	1280	1315	320	4
H-30	1360	1395	340	4
H-31	1420	1455	280	5
H-32	1540	1575	250	6
H-33	1720	1755	280	6
H-34	1810	1845	250	7
H-35	2020	2055	280	7



Non-blind type glass plate level gauge dimensions (Visible length < C to C distance)

Code	C-C	visible	Glass	section
		Length	length	
		V(+2/0)	G	
S-1	135	90	115	1
S-2	160	115	140	1
S-3	185	140	165	1
S-4	210	165	190	1
S-5	240	195	220	1
S-6	270	225	250	1
S-7	300	255	280	1
S-8	320	275	300	1
S-9	340	295	320	1
S-10	360	315	340	1
S-11	370	325	165	2
S-12	420	375	190	2
S-13	480	435	220	2
S-14	540	495	250	2
S-15	600	555	280	2
S-16	630	585	190	3
S-17	640	595	300	2
S-18	680	635	320	2
S-19	720	675	340	2
S-20	720	675	220	3
S-21	810	765	250	3
S-22	900	855	280	3
S-23	960	915	220	4
S-24	1020	975	320	3
S-25	1080	1035	250	4
S-26	1200	1155	280	4
S-27	1280	1235	300	4
S-28	1350	1305	250	5
S-29	1360	1315	320	4
S-30	1440	1395	340	4
S-31	1500	1455	280	5
S-32	1620	1575	250	6
S-33	1800	1755	280	6
S-34	1890	1845	250	7
S-35	2100	2055	280	7



ISEN-B69H-16 mica sheet Two Color high pressure Level Gauge

For monitoring the water level of power plant boiler drum of thermal power generating set.

- Centertocenterdistance: on order
- Nominal pressure: 16-32MP
- working temperature: saturated steam
- Connection size: OD 28x4mm welding or made on needs
- **Red for air, and green for water**
- Lamp type: LED with power: 220VAC
- A with two line glass window, no interrupt zone for level view.

B With one line glass window, have interrupt zone.



ISEN-B49H-1.6 Economy type two color glass Level Gauge

Model	B49H-25		
Name	Bi-color Flat glass level gauge		
PN	1.6~4.0(MPa)		
DN	25(mm)		
C-C	300~440(mm)		
Temp.	≤250°C		
Material	Carbon steel		
Lamp	power AC 36V+/-4V		
Nominal diameter	1.60MPa	2.50MPa	4.00MPa
Test Pressure	2.45	3.80MPa	6MPa
Visible length	165~195mm		
Center to Center	300, 330, 350, 400 (mm)		
Indicator color	Red for Liquid, green for air		
View angle	20°		
View distance	<60m		



Other similar types



ISEN-ULB-F Boat Fuel Reflex Glass Level Gauge

structural features The level gauge is fitted with a steel ball in each of the upper and lower valves. When the glass plate suddenly broke in an accident. Under the action of the inside pressure, the steel ball in the container will automatic seal, this will prevent the injection or continued outward flow of the liquid. And ensured the safety of the person and equipment. A sampling plug is installed at the lower end of the level gauge, which can be open for sampling or maintenance.



Technique Information:

A, reading error: plus or minus 0.5cm B, measure the height range of liquid level This level gauge is based on the installation center distance H (the distance between the center line of the upper and lower valves of the level gauge). The scale range on the glass plate is H1. The corresponding relation between H and H1 is shown in bellow table.

Material:

Glass	Gasket	Chamber	valve	Cover flange	Flange
Borosilicate	Rubber	Stainless Steel	SS304	SS304	SS304

Suitable working condition:

Fluid: water or fuel oil

Process pressure: <0.3MPa

Process temperature: <80 °C

Dimension

H (mm)	500	600	800	1000	1200	1400	1600	1800	2000
H1(mm)	340	440	640	840	1040	1240	1440	1640	1840

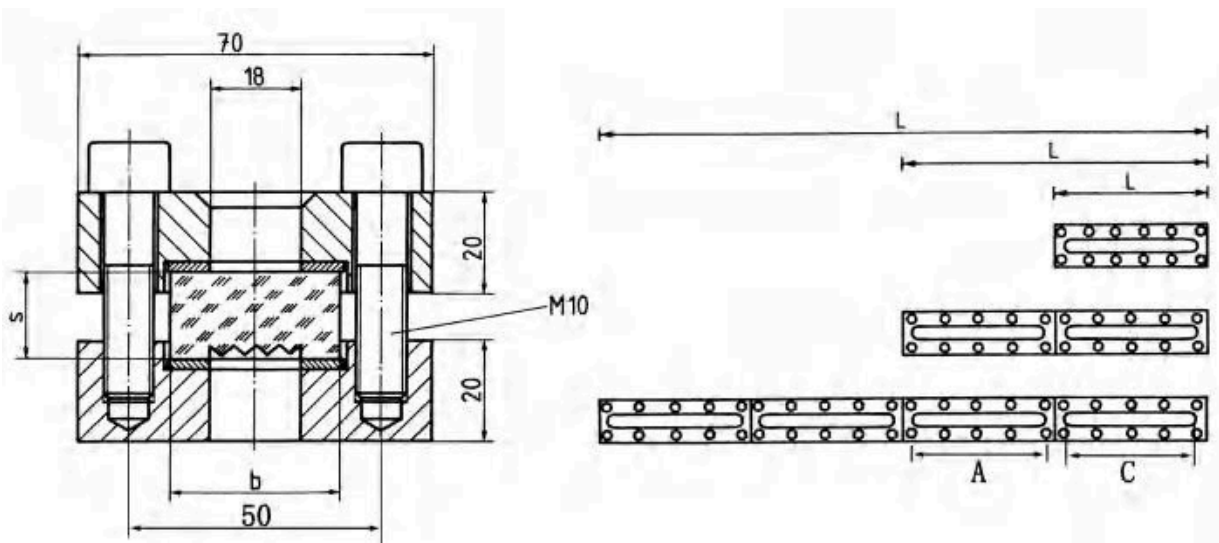
ISEN-HG5-1370-80 Lumiglas Sight Glass Fitting Rectangular

The base flange of the sight glass unit is welded into or onto the vessel wall; the glass plate with gasket either side is firmly held in place by bolted on cover flange.

- 1) Suitable pressure: 0.6MPa, 1.6Mpa or other
- 2) Working temperature: $\leq 250^{\circ}\text{C}$
- 3) Material: Carbon steel, Stainless steel, Titanium or other



- Dimensions of Lumiglas sight glass fitting rectangular:



size		1	2	3	4	5	6	7	8	9	10	11	12	13
fitting	L	170	195	210	250	300	350	400	440	500	600	700	800	1000
sight glass plate*	section	1	1	1	1	1	1	1	2	2	2	2	2	4
	Glass	140	165	190	220	280	320	370	190	220	280	320	370	220
Width*thick	C	124	149	174	204	264	304	354	174*2	204*2	264*2	304*2	354*2	204*4
=34*17	Boltqty	8	10	10	12	14	16	18	20	24	28	32	36	40

Standard is reflex glass. Transparent type glass is optional when needs.

Other Sight glasses (Special order is acceptable on order).



4. Typical Glass sizes of Level Gauge

Items	TYPE A flat/groove			TYPE B flat/groove			TYPE H Flat			TYPE TA 28 flat		
	L	W	H	L	W	H	L	W	H	L	W	H
000				85	34	17						
00				90	34	17						
0				95	34	17						
1	115	30	17	115	34	17	-	-	-	113	27,6	16,8
2	140	30	17	140	34	17	140	34	22	-	-	-
3	165	30	17	165	34	17	165	34	22	163	27,6	16,8
4	190	30	17	190	34	17	190	34	22	188	27,6	16,8
5	220	30	17	220	34	17	220	34	22	218	27,6	16,8
6	250	30	17	250	34	17	250	34	22	248	27,6	16,8
7	280	30	17	280	34	17	280	34	22	278	27,6	16,8
8	320	30	17	320	34	17	320	34	22	318	27,6	16,8
9	340	30	17	340	34	17	340	34	22	338	27,6	16,8
10	370	30	17	370	34	17	-	-	-	-	-	-
11	400	30	17	400	34	17	-	-	-	-	-	-
12	450	30	17	450	34	17	-	-	-	-	-	-
13	500	30	17	500	34	17	-	-	-	-	-	-

Other shapes of glass

Model	Sizes				
Single groove	140*40*33	165*40*33	190*40*33	218*40*33	218*43*34
double grooved glass	165*34*20	190*34*20	218*34*20		
double color center grooved sight glass	165*34*22 320*34*22	190*34*22 340*34*22	218*34*22	250*34*22	280*34*22
Regular triangular glass	165*44*22	190*44*22	216*44*22		
Partial prism glass	120*50*22	165*50*22	186*50*22	190*50*22	216*50*22
double color center grooved sight glass	165*34*22 320*34*22	190*34*22 340*34*22	218*34*22	250*34*22	280*34*22

5. Pressure vessel sight glass Fitting

Application: Weld-on low pressure sightglass fittings for observing the internals of tanks, pressure vessels, silos, gear-trains, separators and pipelines etc.

General: low pressure sight glasses are similar to the DIN28-120 series and are suitable for welding into or onto vessel walls.

Operating Conditions:

Rated for pressures up to 5 bar depending on size. Temperature rating up to 900°C depending on seal and glass selection.



Item Part

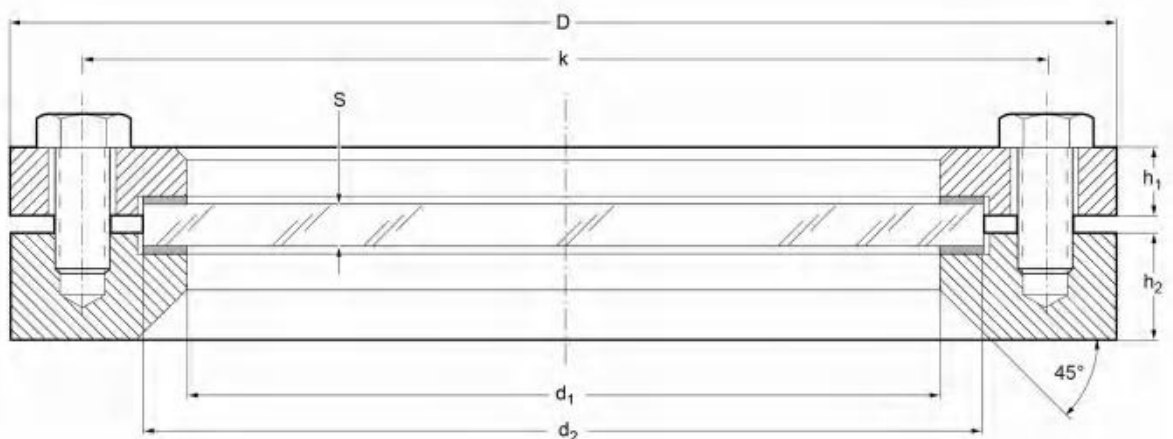
- 1 Base Flange: (welding flange) Stainless steel 316L or 304L, carbon steel.
- 2 Gaskets: NAF, PTFE, Viton, food quality Silicone rubber or micaceous material for high temperature applications.
- 3 Sight glass disc: Toughened Soda Lime (up to 150°C) to DIN8902 or BS3463, toughened Borosilicate (up to 280°C) to DIN7080 or Quartz (up to 900°C).
- 4 Cover flange: Stainless steel 316L or 304L carbon steel.
- 5 Securing bolts: Stainless steel A2 grade or carbon steel.

Other materials are available upon request.

The Sight glass can add with wipper, lamp , can be with welding neck.

Other types see to our sight glass catalog.

Installation: welding the base flange (1) into the vessel wall, Place gaskets (2), sight glass disc (3) and cover flange carefully. Then the bolts (5) are progressively tightened, cross tight the bolt several times.



Size		1	2	3	4	5	6	7	8	9	10
Pressure rating	bar	5	5	5	5	5	5	4	4	3	3
Viewing diameter	d1	50	80	100	125	150	175	200	225	250	300
Sight glass disc	d2	60	89	114	150	175	200	225	250	275	325
Toughened borosilicate glass	S(TBS)	10	12	12	20	20	25	25	20	20	30
Flanges	D	100	150	177	202	228	254	280	304	345	405
	h1	16	16	16	16	16	16	16	19	19	19
	h2	25	25	25	25	25	25	25	30	30	30
Bolts	K	78	127	152	178	204	229	256	280	304	366
	No.	4	4	4	8	8	8	8	8	8	8
	Size	M12	M12	M12	M12	M12	M12	M12	M12	M12	M12
	Length	30	30	30	35	35/45	35/45	35/45	40/45	40/45	45/55

Dimensions for Visilume Standard Sightglass Fitting with Wiper Assembly

Size		1	2	3	4	5	6	7	8	9	10
Pressure rating	bar	N/A	5	5	5	5	5	3	3	2	2
Viewing Diameter	d1	50	80	100	125	150	175	200	225	250	300
Sight glass disc	d2	N/A	89	114	150	175	200	225	250	275	325
Toughened borosilicate glass	S (TBS)	N/A	12	12	15	20	20	15	15	20	15

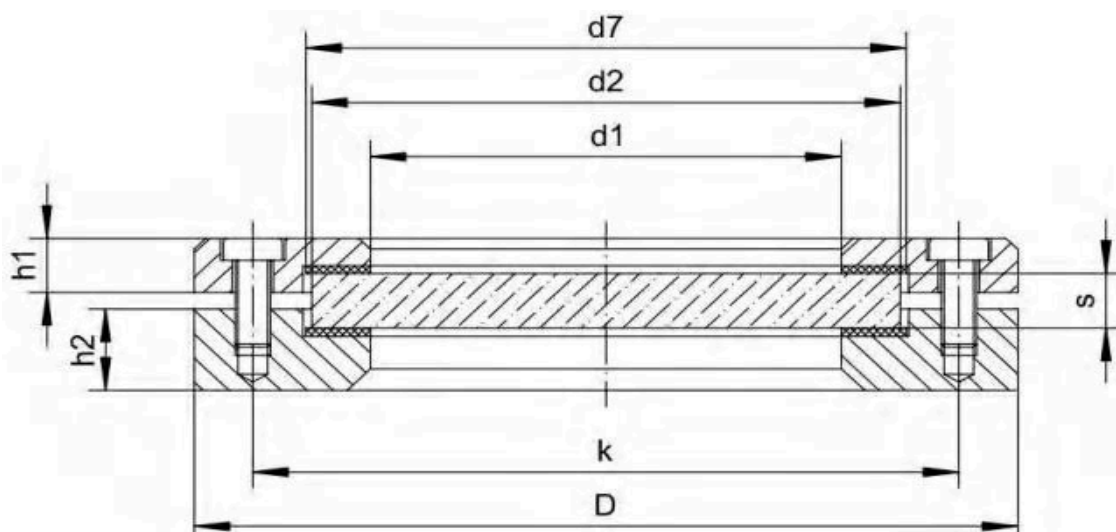
Ordering Information

Please specify the selected items as follows:

Fittings: Viewing diameter

Material: Base (welding) flange, bolts, cover flange, glass disc, gaskets.

Vessel Sight Glass fitting for open tank



Dimensions

Size		1	2	3	4	5	6	7
Nominal bore	DN	50	80	100	125	150	200	300
Viewing diameter	d1	80	100	125	150	175	225	300
Sight glass disc	d2	100	125	150	175	200	250	325
	s	10	10	10	10	10	10	15
Flanges	D	140	165	190	215	240	290	370
	k	120	145	170	195	220	270	345
	h1	10	10	10	10	10	10	15
	h2	15	15	15	15	15	15	20
Fastening bolts	no.	4	8	8	8	8	8	12
	Size	M6	M6	M6	M6	M6	M6	M8
Gaskets (side with product contact and atmospheric side)	d1	80	100	125	150	175	225	300
	d7	102	127	152	177	202	252	327

Order data:

- Xukang sight glass fitting (DIN) and construction
- Nominal diameter (DN) / nominal pressure (PN)
- Material:bolts glassdisc gaskets

6. Glass Tubular Level Gauge



Model selection of ISEN Glass Tubular Level Gauge

Model No.	Pressure	temperature	chamber	Glass material	C-C distance
Pressure	P1	1.0MPa			
	P2	2.0MPa			
	P4	4.0MPa			
	P6	6.4MPa			
	P10	10.0MPa			
Temperature	T1	<60°C			
	T2	<100°C			
	T3	<180°C			
	T4	<450°C			
	T5	<600°C			
Body material	CS	Carbon Steel			
	304	Stainless steel 304			
	316	Stainless steel 316			
	PVC	PVC anticorrosive plastic			
	PP	valve, flange PP anticorrosive plastic			
	PTFE	Stainless steel lining PTFE			
tube	B	Borosilicate Glass Tube <100°C, <1MPa			
	P	Transparent PVC, PP anticorrosive tube <60°C			
	F	Transparent Soft PTFE anticorrosive tube			
	Q	Quartz glass tube a. <450 °C; b.<600 °C,			
Flange size	DN15	DN20	DN25	DN40	DN50
Center to Center Distance	(mm)				

ISEN-UGS-A (GZS-A) Bi-color Quartz Glass Tube Liquid Level Gauge

This gauge is consist of gauge valve, red/green glass sheet, V shape glass tube, chamber and scale plate.

- 1) Measureranges:300~3200mm
- 2) Glasstubesize:OD29*thick10mm OD26*thick8mm
- 3) Workingtemperature:-20~600°C
- 4) Nominalpressure:PN0~10MPa
- 5) Quartztubetestpressure:≤13MPa
- 6) Metermaterial:carbonsteel,SS304
- 7) Greenforliquid,redforair(canaddelectriclightonorder)



ISEN-GZS-C series Economic Glass tube Water Level Gauge

- 1) Measure ranges: 300~5000mm
- 2) Working temperature: ≤180°C
- 3) Nominal pressure: PN0~16Bar
- 4) Meter material: carbon steel or SS304, SS316
Transparent tube protector: U shape Aluminium housing
- 5) Visible length = center to center distance -100mm
- 6) Connectionmethod:threadorflangeanytypeonorder.

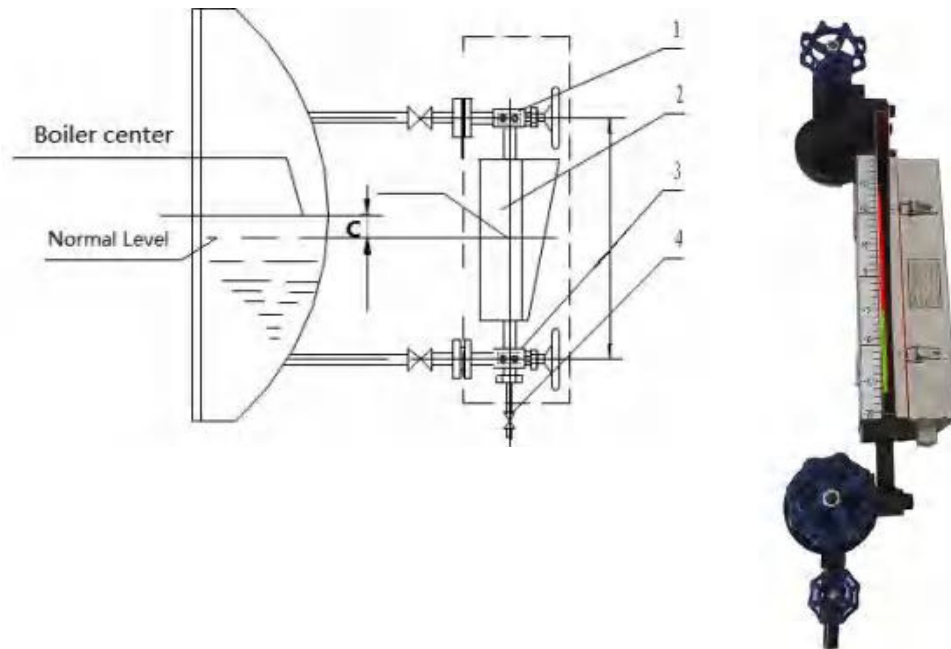


Water Gauge valve: needle valve with safety ball check inside the valve.

Type choice of glass tube:

- A) BorosilicateGlasstubeOD20mmxthick2.5mm
Borosilicate glass tube: C-C length ≤1840mm or longer;
- B) Acrylic glass tube: OD20 x thick 3mm
Suitable for center to center length <5040mm
- C) PTFEtransparenttubeOD20xthick2mm
Suitable for any length.

ISEN-B49HT-2.5G, 4.0G, 6.4G, 10G Double Color Quartz Glass Tube Water Level Indicator



Bi-color water gauge consists of upper valve, lower valve, and gauge chamber, drain valve, and lamp house. Inside the valve body. There is a safety steel ball and safety valve seat. When the quartz glass tube is broken suddenly, the steel ball will remove to the safety valve seat in high speed pushed by high pressure steam to shut off the channel of the gauge automatically until the upper and lower valves is closed by hand. The ball will be reset by the pressure from the

- 1) Measure ranges: 300-600mm
balancing tube and by its gravity.
- 2) Working temperature: -20~450°C, 600°C
- 3) Glass Tube Size: Quartz tube OD29*thickness 10mm
- 4) Meter material: A105, SS304, SS316
- 5) Process connection: flange DN25 or other. PN2.5, PN4.0, PN6.4, PN10MPa
- 6) Bi-color display: red for air, green for water level display. (Very clear display)
- 7) Two LED light assemble to the level gauge: Adapter input: 100-240VAC, output: 3-24VDC adjustable, LED power: 3-24VDC.

Components:

- | | | | |
|-------------------|----------------------|------------------|-------------------|
| 1. RED GLASS | 2. GAUGE housing | 3. WINDOWSCOVER | 4. QUARTZTUBE |
| 5. GREEN GLASS | 6. GLASS COVER PLATE | 7. LIGHTCOVER | 8. REFLECTORPLATE |
| 9. END COVER | 10. PRESS COVER | 11. GRAPHITERING | 12. BRACKET |
| 13. power adapter | | | |

7. Steel Ruler type Well Depth and Water Level Meter

1. Overview

This water level Indicator is designed for Water Well Depth Measurement with probe and buzz. The steel ruler water level gauge provides the most accurate way to measure well depth or levels of water in wells boreholes and water pipes.



Specification	30m	50m	100m	150m	200m	300m	500m
Measurement dept (m)	0~30	0~50	0~100	0~150	0~200	0~300	0~500
Minimum reading (mm)	1.0						
Repetitive reading (mm)	±2.0						
Operating voltage (V)	DC=9						

2. Principle structure

There are two major components:

Ground receiving equipment-steel ruler water level gauge, including the probe, steel ruler cable, receiving system and winding plate, battery and other components.

Probe part: stainless steel material. For water level detect: when the probe touches the water, it alarm, once left the water, and it will stop.

Steel ruler part of the cable: Made of steel ruler and wire by plastic technology, which prevents the steel ruler corrosion,

Receiving system part: Consist of the sounder, indicator and peak indicator. The sounder gives a continuous beep, then the indicator light is on, and the peak indicates the voltmeter.



8. Ultrasonic Level Meter

ISEN-UL-A general Ultrasonic Level Meter

- DC12-24V wide work voltage
- Backup and recovery parameter set
- Free adjustment of the range of analog output
- Set a filter value to remove
- Custom serial port data format
- Optional increment/difference distance measurement to measure air space or liquid level
- 1-15 transmitted pulse intensity depending on working conditions
- Explosion-proof (optional)



Specifications

Range: 5, 8, 10, 12, 15m Blind zone: <0.4-0.5m (different for range) Measure error: 0.3%F.S Display: OLED Display resolution: 1mm Frequency: 20~350KHz Power consumption: <1.5W Output (optional): 4~20mA RL>600Ω (standard) 1~5V\1~10V RS485 3NPN 2 relays (AC: 5A 250V DC: 10A 24V)	Material: ABS or PTFE probe Dimension: Φ92mm×198mm×M60 Electrical interface: M20X1.5 Installation: M60X2 or Φ 61MM Operating surroundings : normal temperature, normal pressure Protection degree: IP65(others optional)
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ISEN-UL-F5 Split type ultrasonic level meter , Open channel Ultrasonic Flowmeter

- Fluxrange : 0~9999999(Fulleightclearedandthecumulativenumberplus1)
- Instantflux:10L/s~10m3/s(basedonwiretypeandsize)
- Accuracy:5%
- Sensorange:2m,5m,8m,10m
- blindarea:0.3--0.5m(differentfromrange)
- sensorprecision : ±0.5%F.S
- display: LCD
- liquidlevelresolution: 1mm
- keyboard: 16
- signalinput: transducer
- output(optional):4-20mA/



RS485/232(Modbus)/ 4 relays

(AC:5A250V DC:10A120V)

(12) workvoltage: AC220V or DC12~24V

(13) consumption: <3W

(14) material: ABS for instrument, ABS for sensor

(15) main instrument size: 180mm*160mm*76mm/168mm*130

(16) sensor size: $\Phi 65\text{mm} \times 119\text{mm} \times G11/2(3\text{m})$ 、 $\Phi 74\text{mm} \times 137\text{mm} \times M60(5-15\text{m})$ 、
 $\Phi 109\text{mm} \times 194\text{mm} \times M30(20-30\text{m})$

(17) sensor installation size: $G11/2(3\text{m})$, $M60 \times 2(5-15\text{m})$, $M30 \times 1.5(20-30\text{m})$

(18) sensor cable: 10m shield cable

(19) work surrounding: normal

(20) protection degree: IP53 for main instrument
IP65 for sensor (higher degree optional)

(21) data scan: check hour, day, week, year flux record.

(22) optional item when order: Mini SD data collect、GPRS/GPS、micro-printer.

ISEN-ULT Small blind area ultrasonic level meter

ULT small blind area ultrasonic level meter is a kind of product exploited for needing of high precise in some situation. And it's the first ultrasonic level sensor which small blind area achieves to 0.06m, and 1mm measure resolution. The cover is ABS, sensor is PP; they are both rigid and small. The cover of main processor is crystal, bring the convenience of observing measure value. The main board was made of SMT electronic components. Those made our production more stable and reliable.

Features:

Strong anti-interference

Automatic temperature compensation

Firm and stable transducer suit for bad industry condition



General Specification:

Unusable area: : <0.06 m (1m), 0.15m (2m range),
0.2m (>2m range)

Emission angle : 9°

Max measure error: $\pm 2\text{mm}$

Transducer frequency: 40KHz~430.0KHz

Display resolution: 1mm

Display: 4 figures 8 segments OLED (LCD available)

Power: DC12~28V Power consumption: <1.5W

Output signal: 4~20mA (other output signal is available),
RS485/Modbus is option

Max load impedance: 300 Ω

Process connection size: G 1 1/2"

Cable entry: M20*1.5-2

Keyboard: 3 sensitive metal piece key

The shell material: cast Aluminum alloy+ABS ,

probe: stainless steel Ambient

temperature: -20 °C ~60 °C Ambient

pressure: normal condition Humidity: 0

to 95% Weight: 332g Protection class:

IP65 Explosion-proof : ExiaII BT4Ga
(optional)

9. YWZ Series OIL LEVEL INDICATORS WITH THERMOMETER

The oil level gauges which supplied from our company are essential accessories of oil tank, oil cellar, cooling case and gear box. They can indicate both liquid level and liquid temperature.

These type oil level gauges are an attractive, new and unique type, and can indicate liquid level and temperature clearly. Good assembly performances; fixed installation, crack control, shockproof and leakage proof and their advantages. These type oil level gauges are designed to 25 different kinds' specifications according the oil tank volume. We assure the products quality for one year, and welcome all new and old customer to try these type products.



ISEN-YWZ □ — □ □

T: With Thermometer
Omit if without Thermometer

E: connection hole center to center distance

1. Medium is Water-ethylene glycol

Omit if medium is hydraulic oil

液位液温计 liquid Level and temperature Gauge

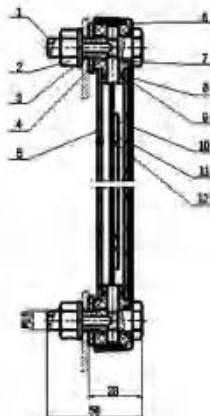
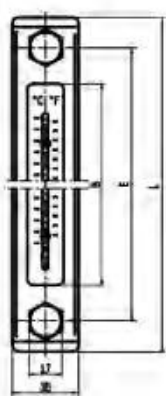


Example:

ISEN-YWZ-80: Oil gauge without thermometer for hydraulic oil.

ISEN-YWZBH-80T: Oil gauge with thermometer for water-ethylene glycol.

Product Structure Diagram:



1. Bolts
2. Nuts
3. Gasket ring
4. Seal gasket
5. Meter body
6. Meter head
9. Shell
11. Rating plate

- 7(8). O ring
10. Thermometer
12. Tie wire

MODEL CODE

MODEL	Size (mm)		
	L (Gauge)	E (C-C)	B (Indicator)
ISEN-YWZ-76	106	76	37
ISEN-YWZ-76T			
ISEN-YWZ-80	110	80	42
ISEN-YWZ-80T			
ISEN-YWZ-100	130	100	62
ISEN-YWZ-100T			
ISEN-YWZ-125	155	125	87
ISEN-YWZ-125T			
ISEN-YWZ-127	157	127	89
ISEN-YWZ-127T			
ISEN-YWZ-150	180	150	112
ISEN-YWZ-150T			
ISEN-YWZ-160	190	160	122
ISEN-YWZ-160T			
ISEN-YWZ-200	230	200	162
ISEN-YWZ-200T			
ISEN-YWZ-250	280	250	212
ISEN-YWZ-250T			
ISEN-YWZ-254	284	254	215
ISEN-YWZ-254T			
ISEN-YWZ-300T	330	300	262
ISEN-YWZ-350T	380	350	312
ISEN-YWZ-400T	430	400	362
ISEN-YWZ-450T	480	450	412
ISEN-YWZ-500T	530	500	462

TEMPERATURE RANGE AND SUSTAINED PRESSURE

Temperature range: $-20^{\circ}\text{C} \sim +100^{\circ}\text{C}$

Pressure class: 0.10~0.15MPa

INSTRUCTION OF INSTALLATION AND ACCESSORIES

Open two holes on the container according to the level gauge center to center distance. For example if oil tank wall thickness $\leq 10\text{mm}$, the two holes diameter where fix screws are $\Phi 11\text{mm}$; And if oil tank wall thickness $> 10\text{mm}$, the two holes diameters are M10. Please treat the surface of the two holes to avoid oil leaking. Liquid level gauge accessories: nut, gasket, and packing plate each two sets. And our factory supplies all the above accessories.

10. Radar Level Meter

80GHz High frequency Radar Level Transmitter

Is Suitable for high dust, agitating tank, strong foam, steam and strong corrosion and high temperature environment (+200°C) liquid level or solid level measurement.

- ☐ Working frequency 76-81GHz
- ☐ Accuracy: +/-1mm
- ☐ 2-wire , 4-wire with measure range: 0.1-10m, 0.3-120m.
- ☐ Have field LCD display
- ☐ Communication: UI782x: MODBUS / UI783x: HART
- ☐ Signaloutput UI782x: 4~20mA or RS-485
 UI783x: 4~20mA
 Bluetooth optional
- ☐ Beam Angle: 3°, 8°
- ☐ Process pressure: -0.1~2MPa, 3MPa
- ☐ Process Temperature: -40~85°C, 200°C, 500°C, 1000°C
- ☐ Power: 15~28VDC
- ☐ Field operation/programming: 128 × 64 dot matrix display / 4 buttons, PC software, Bluetooth
- ☐ Product Size Ø100*270mm
- ☐ Cable entry M20*1.5
- ☐ Protection class IP67
- ☐ Explosion-proof grade ExdIICT6
- ☐ Installation method Thread or flange
- ☐ Weight 2.480Kg/2.995Kg
- ☐ Packing box size 370*270*180mm



26GHz Radar Level Gauge

ISEN-RD901 26GHz Radar Level Gauge



Application:	various high corrosive fluid
Measure range	10m
Medium Temperature	-40~120°C
Process pressure:	-0.1~0.3MPa
Accuracy:	±5mm
Frequency:	26GHz
Explosion-proof class:	Exib II C T6 Gb
Protection class:	IP67
signal output:	4...20mA/HART(2-wire / 4-wire) RS485/Modbus

ISEN-RD902 26GHz Radar Level Gauge

	Application:	high temperature, high pressure medium
	Measure range	30m
	Medium Temperature	-40~250°C
	Process pressure:	-0.1~4.0MPa
	Accuracy:	±3mm
	Frequency:	26GHz
	Explosion-proof class:	Exib II C T6 Gb
	Protection class:	IP67
	signal output:	4...20mA/HART(2-wire / 4-wire) RS485/Modbus

ISEN-RD908 26GHz Radar Level Gauge

	Application:	Various corrosive liquid
	Measure range:	15meter
	Process connection:	Threaded or Flange
	Medium temperature:	-40~200°C
	Process pressure:	-0.1~2Mpa
	Accuracy:	±5mm
	Frequency:	26GHz
	Explosion-proof:	Exia II C T6 Ga
	Protection class:	IP67
	Output signal:	4~20mA/HART, RS485/Modbus
	Power:	24VDC 2-wire, or 220VAC 4-wire
	Beam:	8°
	Material:	SS304 lining with PFA
	size:	OD76 x H 57mm

6GHz Radar Level Meter

ISEN-RD801 6G Radar Level Meter

	Applicable medium: liquid, light corrosive liquid, small Volatile soda acid liquid level measurement, Slurry level measuring
---	--

11. Float level control switches

Float level control switches is suitable for liquid level control in industrial process such as water treatment, petrochemicals, boiler and vessels. The float level switches worked on fluid buoyancy principle, when float up and down due to buoyancy effect to high or low level limit, the magnetic reed switch (or micro switch) in the junction box affected by arm end magnet, and the contact "NC" and "NO" interchanged accordingly.

Top Mount Float Level Switches

ISEN-UQK-A top mount Float Level Switch

Contact rate: 0.5A/250VAC

Float size = OD*H*ID and density:

Operate temp.: -30~120°C

ContactWay: NO,NC,SPDTorholdingsignal

Wet Material: SUS304, SS316, PP, PTFE

Sp.Gr.: on order

Connection: flange or thread, size on order

Insertion rod length: on order

Explosion-proof: on choice

Switch position and switch number: on choice

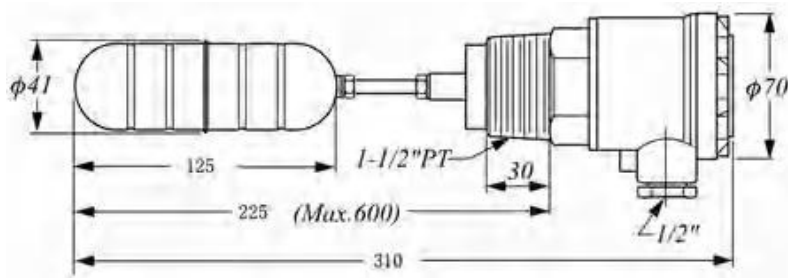


ISEN-Plastic anti-corrosive Float Level Switch

- ☐ Model ISEN-UQK-PHK
- ☐ Power supply 0.5A/250VAC
- ☐ Workingpressure -0.1~+0.5MPa
- ☐ Fluidtemperature -20~80°C, -20~200°C
- ☐ switchtype Normalopen,NormalClose,SPDT
- ☐ Insertion rod length: on order
- ☐ Control position points : on order
- ☐ Connection method: on order



Side Mounted Float Level Switches



Thread ISEN-UQK-10 side mount

Contact rate: 5A/250VAC

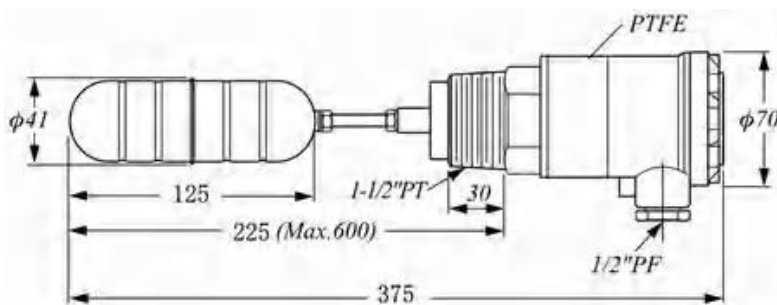
Operate temp.: -30~100°C

Contact Way: SPDT

Wet Material: SUS304

Sp.Gr.: 0.65

Connection: special size accepted



High temp. ISEN-UQK-10T side mount

Contact rate: 5A/250VAC

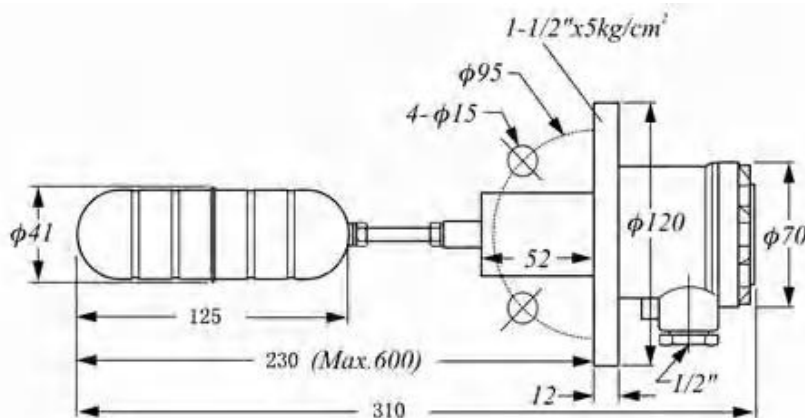
Operate temp.: -30~250°C

Contact Way: SPDT

Wet Material: SUS304

Sp.Gr.: 0.65

Connection: flange or threaded, on needs



Flanged ISEN-UQK-20 side mount

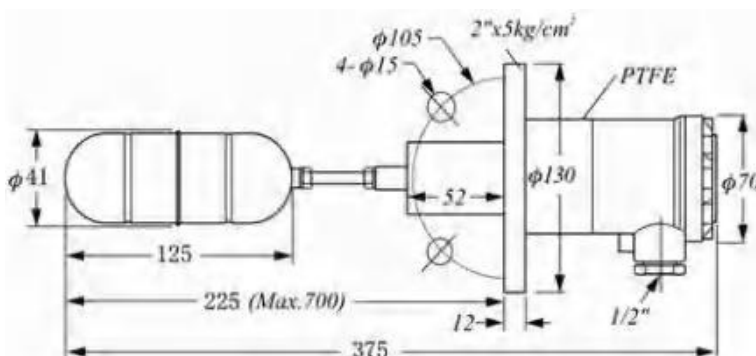
Contact rate: 5A/250VAC

Operatetemp.: -30 ~100 °C

Contact Way: SPDT Wet

Material: SUS304 Sp.Gr.:

0.65



Flange High temp. ISEN-UQK-20T

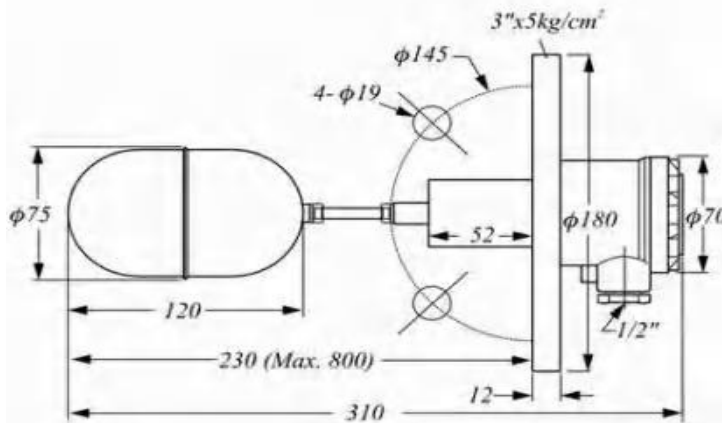
Contact rate: 5A/250VAC

Operatetemp.: -30 ~ 200 °C

Contact Way: SPDT Wet

Material: SUS304 Sp.Gr.:

0.65



Flanged ISEN-UQK-21 side mount

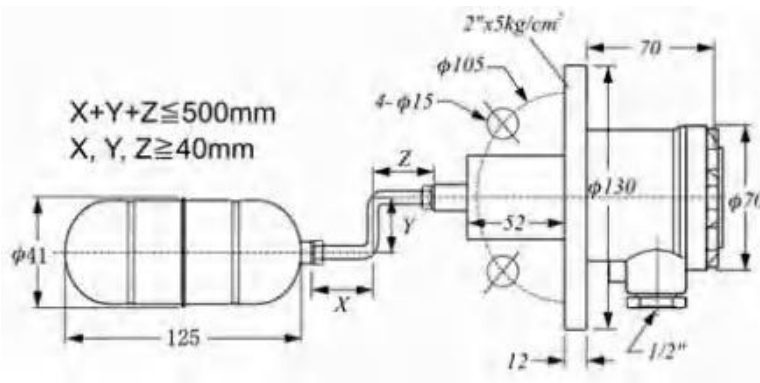
Contact rate: 5A/250VAC

Oper temp: -30~200°C

Contact Way: SPDT

Wet Material: SUS304

Sp.Gr.: 0.65



Z type ISEN-UQK-30 side mount

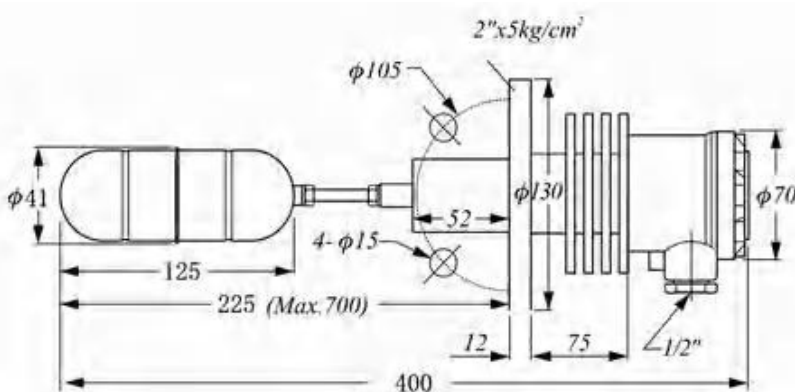
Contact rate: 5A/250VAC

Operatetemp.: -30 ~ 100 °C

Contact Way: SPDT Wet

Material: SUS304 Sp.Gr.:

0.65



High temp. ISEN-UQK-41 side mount

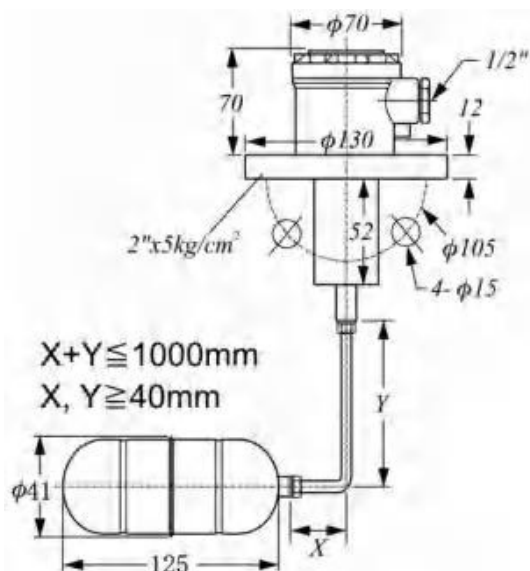
□ Contact rate: 5A/250VAC

□ Operatetemp.: -30 ~ 350 °C

□ Contact Way: SPDT Wet

□ Material: SUS304 Sp.Gr.:

□ 0.65



Flanged ISEN-UQK-50 Top mount

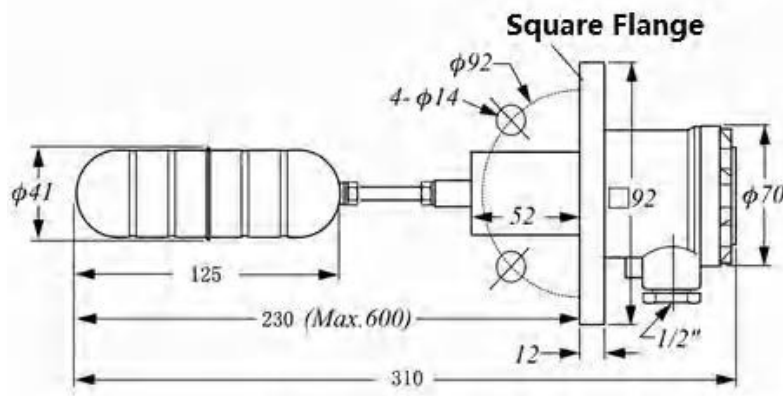
□ Contact rate: 5A/250VAC

□ Operatetemp.: -30~ 100 °C

□ Contact Way: SPDT Wet

□ Material: SUS304 Sp.Gr.:

□ 0.65g/cm3



Flange type ISEN-UQK-60 side mount

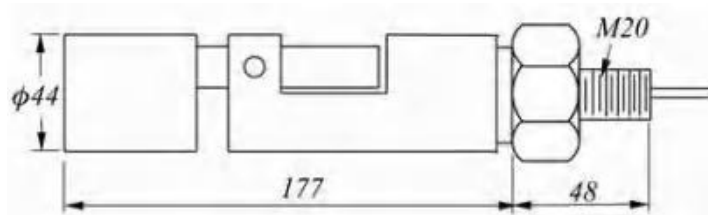
Contact rate: 5A/250VAC

Operatetemp.: -30 ~ 100°C

Contact Way: SPDT Wet

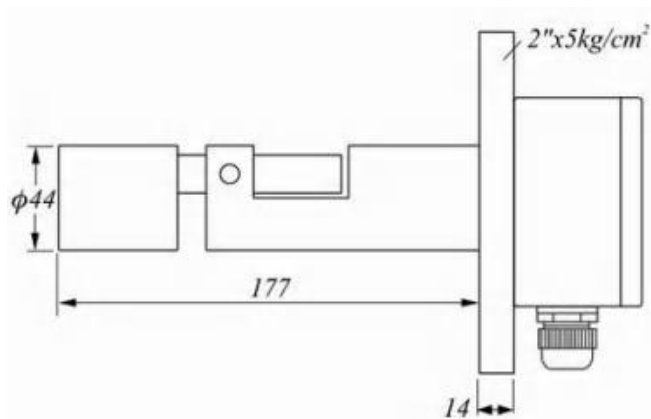
Material: SUS304 Sp.Gr.:

0.65 High temp. type on order



PP thread ISEN-UQK-80 side mount

- ☐ Contact rate: 5A/250VAC
- ☐ Operate temp.: -30~100°C
- ☐ Contact Way: SPDT
- ☐ Wet Material: PP
- ☐ Sp.Gr.: 0.7
- ☐ Screw size: special order accepted.



PP Flanged ISEN-UQK-81 side mount

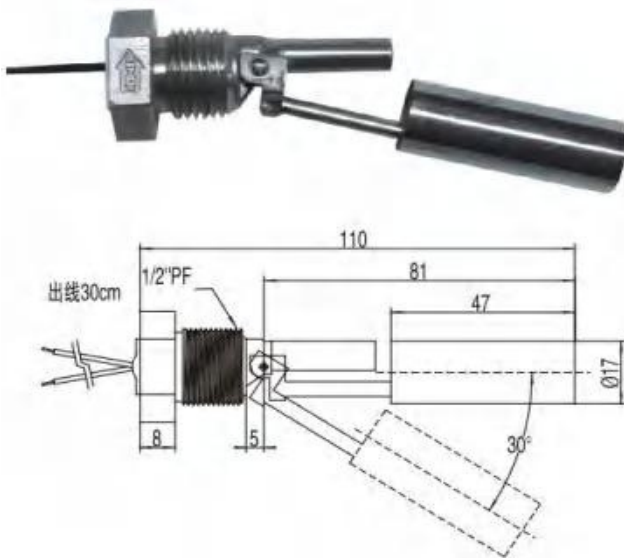
Contact rate: 5A/250VAC

Operatetemp.: -30 ~ 100 °C

Contact Way: SPDT Wet

Material: PP Sp.Gr.: 0.7

Flange



ISEN-UQK-90 Stainless steel Float level switch

Model UQK-90

Contactrate 50W/250VACSPST

Wetparts SS304/SS316L

Measurelength 100mm

Pressure rate 5bar

Temperature -20~150C(max.200C)

Process connection 1/2"PF

Suitable density : 0.9

Cable PTFE cable length 30cm

12. RotatingPaddleLevelSwitch

Rotary paddle level switch is used for solid materials(including powder, massive, granular, gel, etc.)

Technical parameters

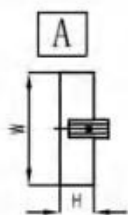
- 1) Power supply:220VAC/110VAC/24VAC/24VDC
- 2) blade rotation speed:1RPM
- 3) Torque: 1.0kg×cm
- 4) Material Specific Gravity: $\geq 0.5\text{g/cm}^3$
- 5) Working temperature:-10°C-80°C; Maximum temperature 400°C
- 6) Insulation resistance: $\geq 100\text{M}\Omega$
- 7) Dielectric strength: 1500V*1min
- 8) IP Grade: IP65
- 9) Blade Material: SS304
- 10) Process Pressure:<0.1MPa(ordinary model), <0.6MPa for high pressure model isonorder.

Model Selection

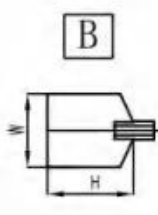
Model 1	ISEN-X K10	(for Specific Gravity<0.8g/cm3), also named small switch
Connecting Shaft	C F	Standard thread type installation Standard Flange
	Z G	type installation Shaft protection tube type High
	GF	temperature thread type High temperature
	GZ	Flange type High temperature Shaft protection
	A B	tube type
	X	
Blade shape		30*1 00 65*80
		decomposableBlades
		Double 80*35 Cross Blades

Model 2	ISEN-XK-3	(SpecificGravity>0.8g/cm3),alsocalledbigswitch
Connecting Shaft type	0	Standardthreadtypeinstallation
	1	StandardFlangetypeinstallation
	2	Shaftprotectiontubetype
	3	Hightemperaturethreadtype
	4	HightemperatureFlangetype
	5	Hightemperatureprotectiontubetype
	6	Shaftlengthadjustabletype Steelcabletype
	8	
Blade shape	A	XK30 series:100*30(WxH);
	B	65*80(WxH)
	C	50*30(WxH)
	D	Sickle type
	E	Folded type

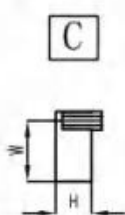
Pictures and description of different models of Blade shape.



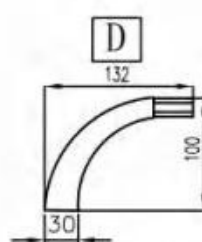
A. 100*30 (W×H)



B. 65*80 (W×H)



C. 50×30 (W×H)



D. 镰刀型 sickle-shaped



E. 折叠型 folded-type

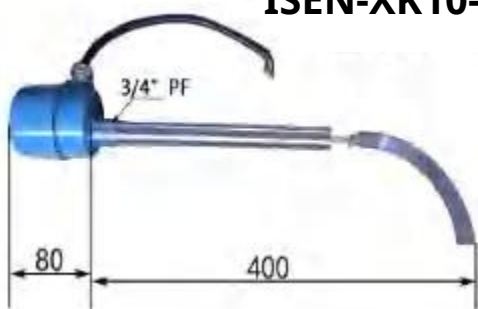
ISEN-XK10-GZ



ISEN-XK10-GZ high temperature with protection tube

Terminal block Power	Aluminum Alloy IP65
Consumption Output	4W 5A/250VAC SPDT
nodes Rotation rate	1RPM -10~2 00 °C
Operating temperature	0.5g/cm ³ 3/4"PF
Specific Gravity	
Connection	

ISEN-XK10-Z



ISEN-XK10-Z with shaft's protection tube

Terminal block Power	Aluminum Alloy IP65
Consumption Output	4W 5A/250VAC SPDT
nodes Rotation rate	1RPM -10~80°C
Operating temperature	0.5g/cm ³ 3/4"PF
Specific Gravity	
Connection	

ISEN-XK10-G



ISEN-XK10-G high temperature threaded

Terminal block Voltage	Aluminum Alloy IP65
Power Consumption	AC220V/1A; 24VAC
Output nodes	4W
Rotation rate	5A/250VAC SPDT
Operating temperature	1RPM
Specific Gravity	-10~200°C
Connection	0.5g/cm ³
	3/4 "PF

ISEN-XK10-C



ISEN-XK10-CA (ordinary threaded type)

Terminal block	Aluminum alloy IP65
Power Consumption	4W
Output nodes	5A/250VAC SPDT
Rotation rate	1RPM
Operating temperature	-10~80°C
Specific Gravity	0.5g/cm ³
Connection	3/4 "PF

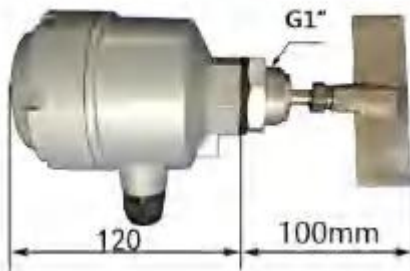
ISEN-XK10-CX



ISEN-XK10-CX (Micro-switch ambient temperature)

Terminal block	Aluminum alloy IP65
Voltage used	AC220V/1A; 24VAC
Power Consumption	3W 5
Output nodes	A/250VAC SPDT
Rotation rate	1RPM
Operating temperature	-20~80°C
Specific Gravity	0.5g/cm ³
Connection	3/4" PF
Torque	10k g-cm
Voltage resistance	1500VACx1min
Specific Gravity suitable	>=0.4g/cm ³
Cable entrance	1/2" PF
Direction of mounting	Vertical or horizontal
Protection class	IP65

ISEN-XK30



ISEN-XK30 (Ordinary threaded)

Terminal block	Aluminum Alloy IP65
Power Consumption	4W
Output nodes	5A/250VAC SPDT
Rotation rate	1RPM
Operating temperature	-10~80°C
Specific Gravity	0.5g/cm ³
Connection	G1"

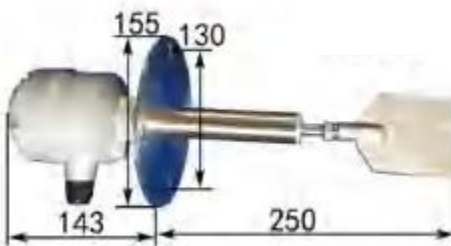
ISEN-XK31



ISEN-XK31 (Ordinary Flanged)

Terminal block	Aluminum alloy IP65
Power Consumption	4W
Output nodes	5A/250VAC SPDT
Rotation rate	1RPM
Operating temperature	-10~80°C
Specific Gravity	0.5g/cm ³
Connection	DN65 PN0.6 (or PN10)

ISEN-XK32



ISEN-XK32 (shaft tube protection)

Terminal block	Aluminum Alloy IP65
Power Consumption	4W
Output nodes	5A/250VAC SPDT
Rotation rate	1RPM -
Operating temperature	10~80°C
Specific Gravity	0.5g/cm ³
Connection	DN65 PN0.6 (Customized)

ISEN-XK33



ISEN-XK33 (high temperature threaded)

Terminal block	Aluminum Alloy IP65
Power Consumption	4W
Output nodes	5A/250VAC SPDT
Rotation rate	1RPM
Operating temperature	-10~200°C
Specific Gravity	0.5g/cm ³
Connection	G1"/G1-1/2" /G3/4"

ISEN-XK34



ISEN-XK34 (high temperature flanged)

Terminal block	Aluminum Alloy IP65
Power Consumption	4W
Output nodes	5A/250VAC SPDT
Rotation rate	1RPM -
Operating temperature	10~200°C 0.5g/cm ³
Specific Gravity	DN65 PN0.6 (or PN10)
Connection	

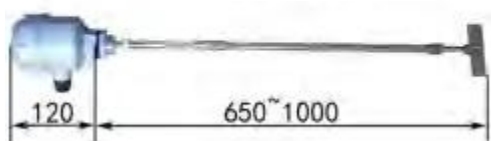
ISEN-XK35



ISEN-XK35 (high temperature with protect tube)

Terminal block	Aluminum Alloy IP65
Power Consumption	4W
Output nodes	5A/250VAC SPDT
Rotation rate	1RPM
Operating temperature	-10~200°C
Specific Gravity	0.5g/cm ³
Connection	DN65 PN0.6 or PN10

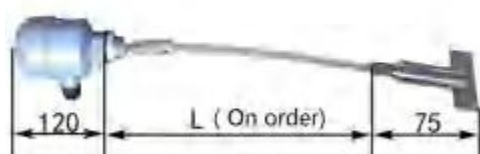
ISEN-XK36



ISEN-XK36 (shaft length is adjustable)

Terminal block	Aluminum Alloy IP65
Power Consumption	4W
Output nodes	5A/250VAC SPDT
Rotation rate	1RPM
Operating temperature	-10~80°C
Specific Gravity	0.5g/cm ³
Connection	G1"/G1-1/2" /G3/4"

ISEN-XK38



ISEN-XK38 (Steel cable)

Terminal block	Aluminum Alloy IP65
Power Consumption	4W
Output nodes	5A/250VAC SPDT
Rotation rate	1RPM
Operating temperature	-10~80°C
Specific Gravity	0.5g/cm ³
Connection	G1"/G1-1/2" /G3/4"

13. Fork Level Switch

14. WS03M level switch

15. Water Electrode Level Switch

COMPLETE SET OF ELECTRODE LEVEL SWITCH



16. Water level alarm controller



17. PressurebasistypeLeveltransmitter



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