

Magnetic Float Level Indicator and By-Pass Level Indicator

Magnetic Float Level Indicator



The "Magnet Float Level Indicator" is composed of the float and sensing rod. As the float raised or lowered by liquid level, the sensing rod will have a resistance output, which is directly proportional to the liquid level. Also, the float level indicator can be equipped with the SENSE UQZ Transmitter to produce a 0/4~20mA signal. In addition, we can use with XS series Bargraph panel meter for level control and display. Anyway, "Magnet Float Level Indicator" is a great benefit to all kinds of industries with its easy working principle and reliability.

Specifications:

Plastic Material includes PP & PVDF, can be applied in corrosive environment. Metal material can be applied in high temperature 120° C and high pressure 30kg/cm².

Metal float includes various types: Dia.45, Dia.52, Dia.75, Dia.125, Dia.150, Dia.200.

Plastic Float type: Dia.48, Dia.55; Specific Gravity: 0.3 ~ 0.8

Output: 4 ~ 20mA, three-wire resistance.

Supply Voltage:

13 ~ 36VDC (4 ~ 20mA output)

5 ~ 30VDC (Three-wire resistance)

Resolution: ±6.35mm, ±13mm

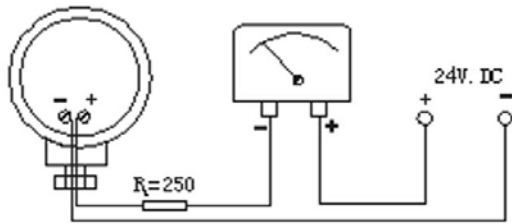
Enclosure Protection: IP65, Ex d IIB T4

Special specification or custom design is acceptable.

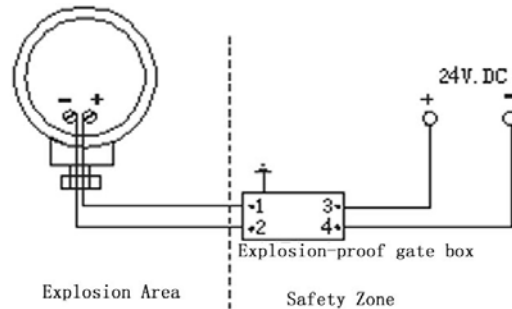
Housing Box: stainless steel / PC / PP

Measuring Range: max. 3M, max. 6M

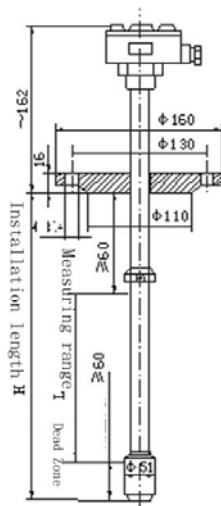
Total Resistance of Measuring Range: 5Kohm~1Mohm



General wiring diagram

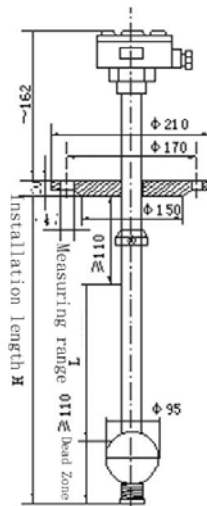


Explosion-proof wiring diagram



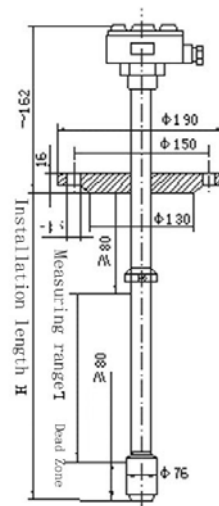
Material: 1Cr18Ni9Ti

A Float Type



Material: 1Cr18Ni9Ti

B Float Type



Material: Plastic

C Float Type

Features:

- Every sensing element is protected by a plastic package, safety in use and transport.
- The measurement range will not be affected by change in specific gravity or pressure.
- High performance and reliability of electric circuit modular designed
- Lower installation costs, less maintenance, reduced personnel training, and decreased plant shock down time.

ORDER TABLE

How orders

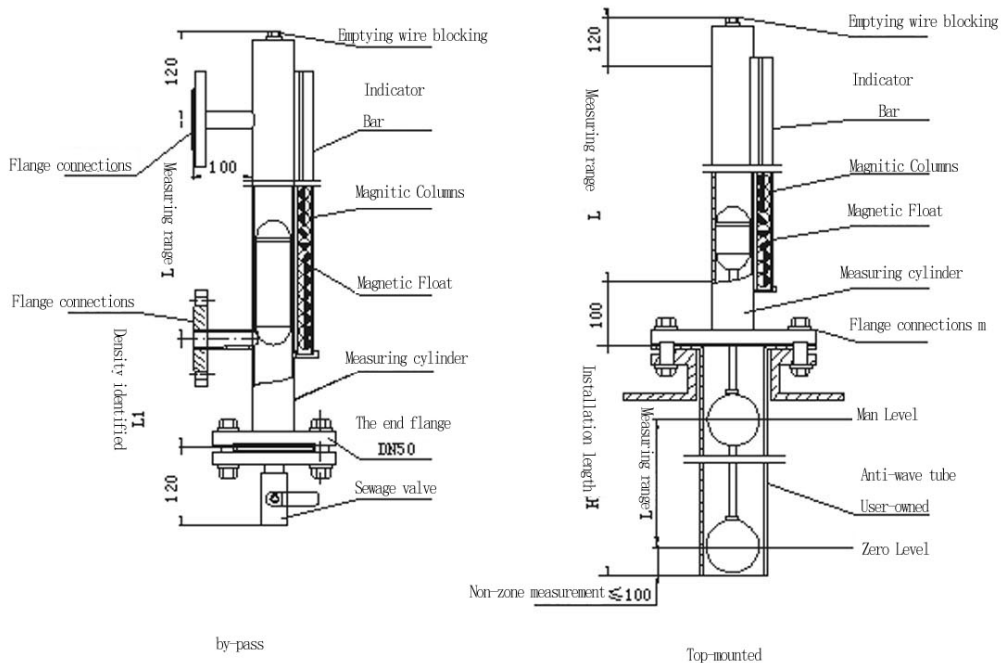
Sensor Material	1-1Cr18Ni9Ti
	2-UPVC
	3-PP
	4-PTFE
	5- Special
output signal	1-4~20mA
	2-RS485
	9- Special
Display form	1- No show
	2- Pointer head table
	3- LCD
	4- Special
Float Type	1-A类 (1Cr18Ni9Ti)
	2-B类 (1Cr18Ni9Ti)
	3-C类 (Plastic floats)
Ex request	1-No Explosion
	2-explosion-proof security (ia II BT3)
UQZ	Measuring range L= Installation lengthH=

Installation option following flange, Annex bypass tubes, etc. Annex specifications, see appendix

By-Pass Level Indicator

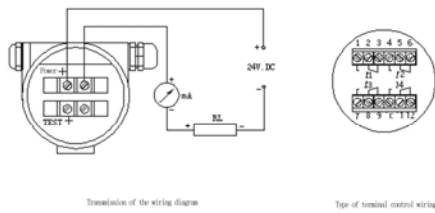


The By-Pass Level Indicator is installed outside of a vessel or tank. The liquid level in the tank can be easily obtained by reading the flag color. The magnetic switches and level transducer are option for electrical signal output and level transmitting for remote control.



Model	A—Magnitic Plate
	E—Magnitic Columns
Installation	1—by-pass
	2—Top-mounted
Signal output	A—No output (The only scene that)
	B—Relay output ※ Note alarm Points
	C—4~20mA
	D—4~20mA +Relay output
Measurements	1—Level Measurement
	2—Measuring Interface ※ Indicate the name and two medium density
Wet material	1—1Cr18Ni9Ti
	2—UPWC
	3—PTFE
	T—Special requirements (Specify the name of)
Connectivity	1—Looper flange connections
	2—Fixed connecting flange
Structure	1—Normal
	2—High - pressure
	3—Steam folder with Type
	4—Corrosion

UFZ								Measuring range L=	Installation length H=
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Specifications:

Metal material-Titanium, Hastelloy, SUS304 / 316, temperature Max. 400° C. Pressure rating 25 Bar, 50 Bar, 100 Bar, S.G. 0.85~0.45 are available.

Resolution: ± 1 cm, each interval of 10cm has a green flag to assist your reading.

Transducer use IC module, Max. operating temperature up to: 120° C; Resolution: ± 6.35 mm; 4 ~ 20mA or three-wire resistance output.

4 types of alarm switches, contact rating 30W/200 VDC, hold and normal type.

Enclosure protection: IP-65 and explosion-proof (EEx d IIC T6), working temperature: 120° C ~ 200° C.

ABS, GL, CR international Marine grade approval, products design has obtained Germany, U.S.A., China and Taiwan patents.

Special specification or custom design is acceptable.

Features:

Principle

By by-passing a liquid to the outside chamber, taking advantage of a float inside the chamber with a magnet inserted as well as in the color flags, one can reveal the level of the liquid in a tank as the flags turn and change color by magnetic attraction to the float.

Applications

Applicable in environments with high temp., high pressure, strong acid, strong alkali and hazardous locations. The structure is simple but durable and reliable. It is also with various optional devices for upgrade in use.

A Level Transducer or Magnetic Switches can be installed and adjusted with no need to stop any process.

Features

It is not operated by electricity and with not be affected by power failure.

The flag display is scaled by a piece of color, division every 10cm, one can easily read the levels height.

Multiple applications for textile dyeing, sewage water processing, power generating, hot coal oil boiler and petrochemical industries.