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# CDT-100R,PVC,PTFE Magnetic Float Type Level Transmitter



CDT SERIES



**VARIOUS LEVEL SENSORS & CONTROLLERS FOR YOUR APPLICATIONS**

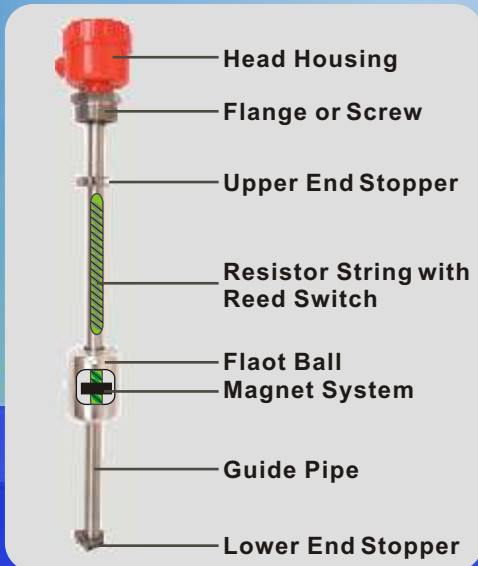


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## OPERATING PRINCIPLE

Float ball on the surface of the liquid moves up and down liquid level along to guide pipe. Magnet system in the float ball operates reed switch which is proportional to the liquid level. These reed switches connected resistor string and resistance signal is transmitted to the converter to send 4-20mA current signal. Signal converter is located in the head housing. Float ball movement is confined by the upper and lower end stopper.

## FEATURE & BENEFIT

### Signal Converter CDT-100R



Zero : 4mA Calibration  
Span : 20mA Calibration

CDI Tech CDT series magnetic type level transmitter is an accurate, stand-alone, loop-powered device, usually mounted in the top of a tank or other container. The unit maybe calibrated in the tank where it will be used. Simply locate the float where you want the zero, and adjust zero volume, then move the float to the span position and adjust another span volume.

### FEATURE

- 2-wire loop power ( DC24V & DC4-20mA)
- Weather-proof enclosure IP65
- 2" screw or various sizes of flange mounting
- PTFE, PP or PVC coating of wetted parts option
- With various level controllers, various contact mode available

### BENEFIT

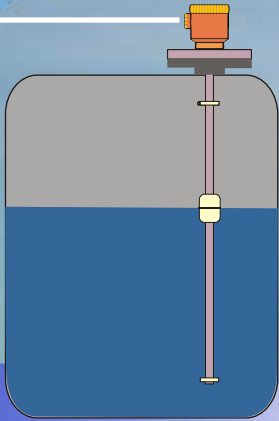
- Most popular and low cost type of transmitter
- Simple operating principle enable no need extra maintenance with long life time.
- Almost any fluid without viscosity can be applicable
- Not affected by temperature and pressure change.

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## TECHNICAL SPECIFICATIONS



### Operating condition

*Measured Object*  
*Liquid Temperature*  
*Operating Pressure*  
*Ambient Temperature*  
*Measuring Range*  
*Density*  
*Measuring Accuracy*

*Liquid*  
-20°C to +80°C  
Less than 10bar  
-20°C to +60°C  
6m (Option : 2 or 3 part)  
More than 0.9 kg/l  
±10mm pitch  
( Option:5mm)

### Connection

*Screw connection*  
*Flange connection*

2" Screw (on request)  
JIS 10K 80A 6T  
JIS 10K 100A 6T  
JIS 10K 125A 6T  
Option : request size & ratings

### Materials

*Housing( Head)*  
*Screw*  
*Flange*  
*Guide Pipe*  
*Float*  
*Stopper*  
*Wetted Part Materials (Option)*

Polycarbonate  
Stainless Steel 304  
Stainless Steel 304  
Stainless Steel 304  
Stainless Steel 304  
Stainless Steel 304  
SUS316, PVC, PP, PTFE

### Enclosure & Signals

*Head*  
*Guide Pipe*  
*Cable*  
*Glands*  
*Power Source*  
*Output Signal*

IP65 ( NEMA4X )  
Water-Proof  
2-shield wire CVV-SB  
PG 13.5  
DC24V  
DC 4-20mA

## APPLICATIONS

Water and aqueous liquids  
Chemicals  
Oil  
Storage tank  
Acids  
Alkalis  
Organic and inorganic solvents

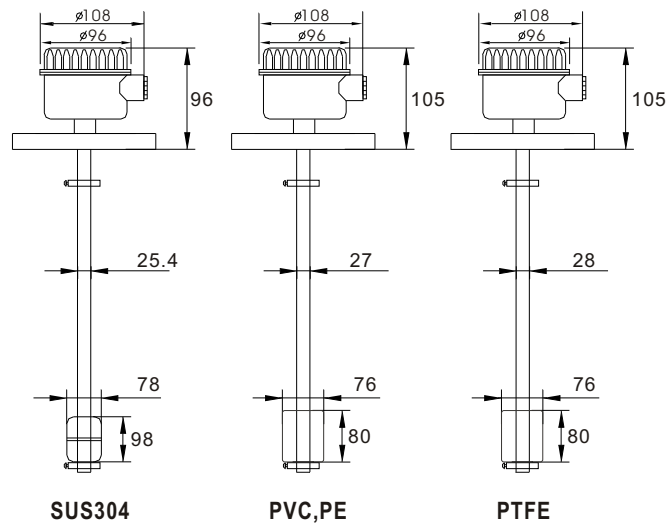
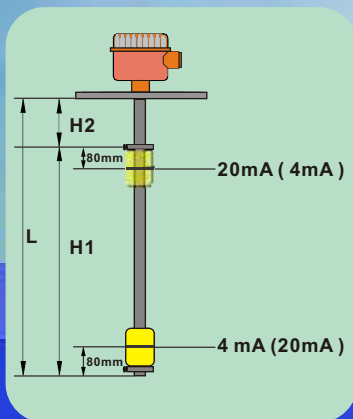


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## DIMENSIONS



## ORDERING CODE

### Magnetic Float Type Level Meter Model CDT-100

Wetted Part Materials	CDT-100
SUS304	R4
SUS316	R6
PVC Coating	P
Teflon coating	T
Connection ( Flange or Screw Size )	
JIS 10K 80A ( 6t )	F3
JIS 10K 100A ( 6t )	F4
JIS 10K 125A ( 6t )	F5
2" Screw	S2
Measuring Information ( refer to above drawing )	
0-100% Measuring Range in (mm)	H1 (mm)
Dead Zone in (mm)	H2 (mm)

Ordering Code Example

CDT-100-R4- F4- 3000 - 500