

# ULTRASONIC LEVEL TRANSMITTER

**FLOWSON-LT**



CE



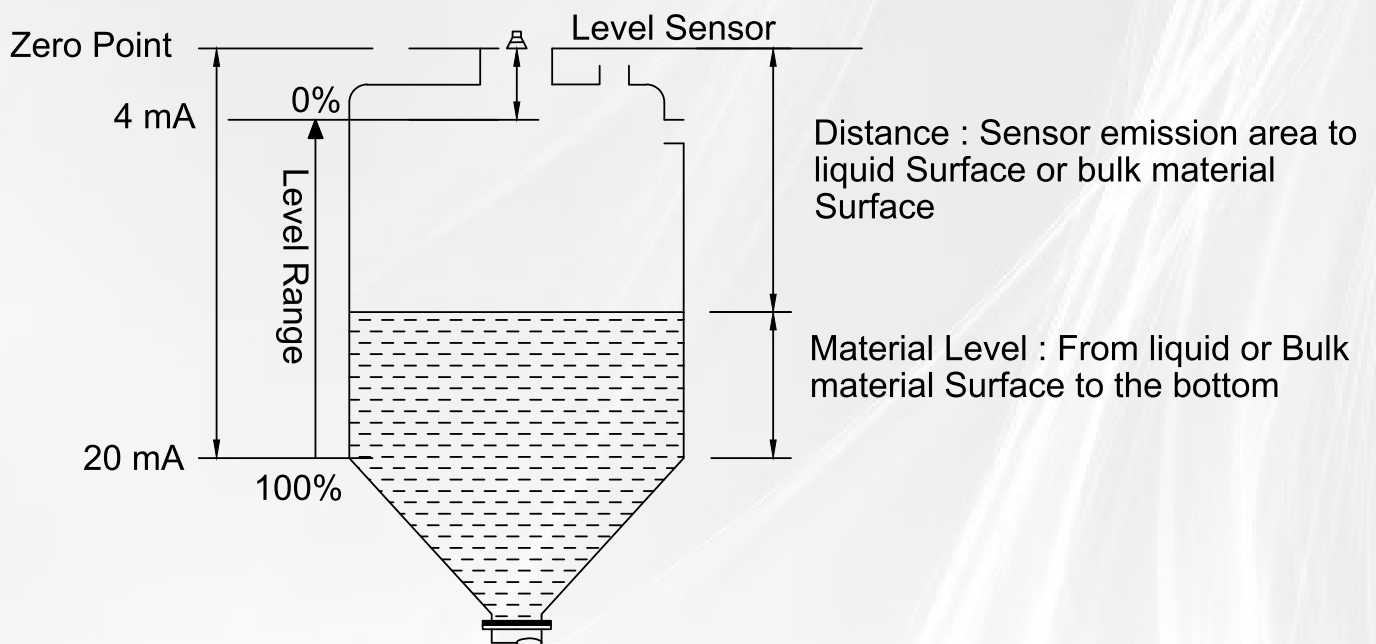
## Product Description

Flowtech Ultrasonic Level Transmitter for Liquids is a non-contact system consisting of an Ultrasonic Transducer integral with Transceiver. The principle of operation is often referred to as 'time of flight'. An ultrasonic pulse is emitted from transducer down towards the target and is reflected back from the surface.

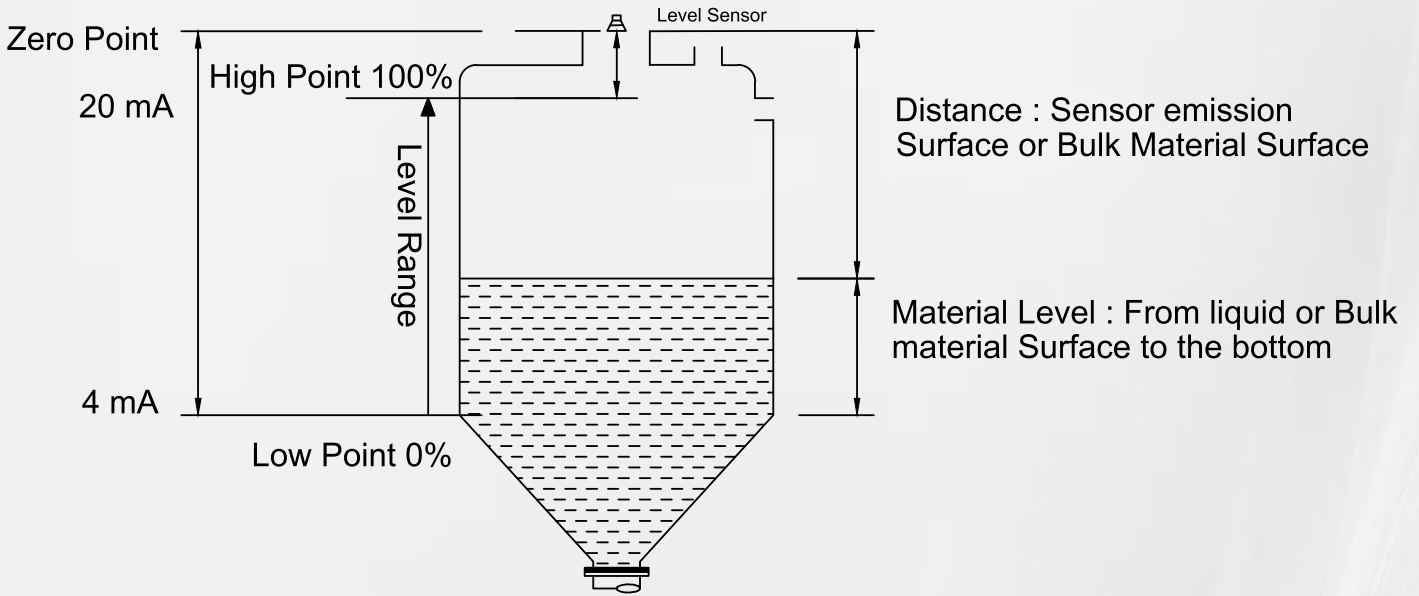
The time it takes to travel 'from and to' the transducer is directly proportional to distance travelled. The system consists of transmitter with 2 core screened signal cable plus indicator or controller along with protection canopy and mounting accessories

## Operating Principle :

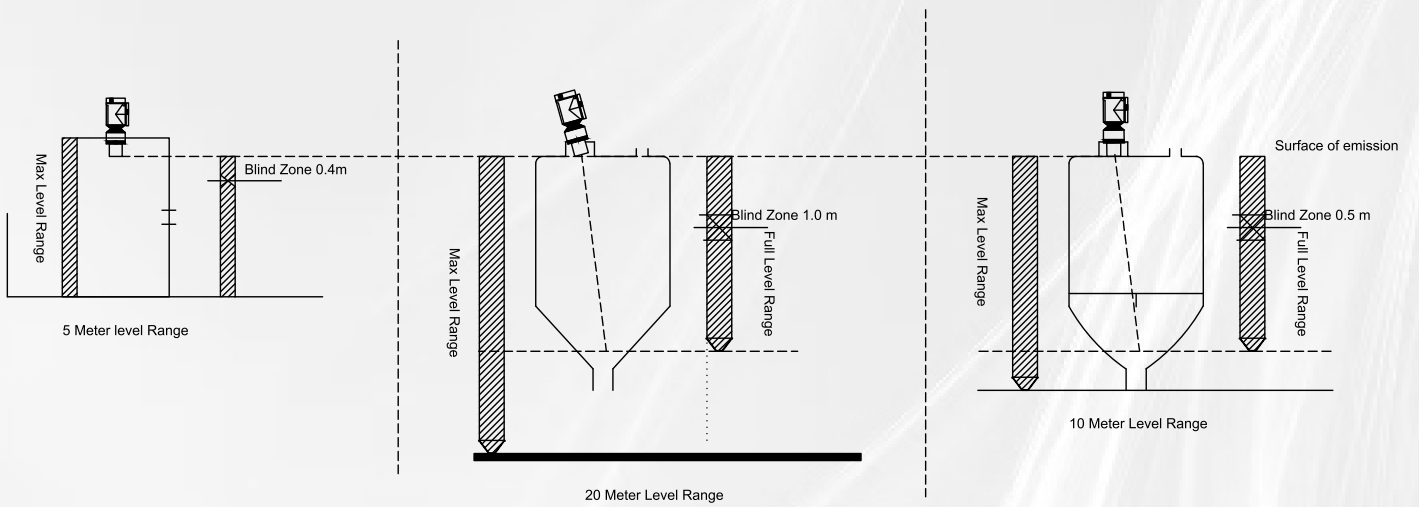
### 1. Diagram of Distance Measurement



# 1. Diagram of Level Measurement



## ACCESSORIES TO BE USED



## FEATURES

The instrument can be connected to display tables or various DCS systems to provide real-time liquid level data for industrial automation.

The instrument has the following characteristics:

- For the power supply part, high quality power modules are selected in circuit design, and imported high stable and reliable components are selected for components, which can completely replace imported instruments of the same type abroad.
- Intelligent acoustic technology software can perform intelligent echo analysis without any debugging and other special steps. This technology has the function of dynamic thinking and dynamic analysis.
- This instrument is a non-contact instrument, which does not contact with liquid directly, so the failure rate is low. Instrument provides a variety of installation methods, users can complete instrument calibration through this manual.
- All input and output lines of the instrument have the function of lightning protection and short circuit protection

## Technical Specifications

Function	Compact Type
Accuracy	0.2% to 0.5%
Resolution	3mm or 0.1%
Display	LCD Display
Output	4-20mA, RS 485, HART (V7.6)
Relay Output	NO
Power Supply	24VDC, 230 VAC, 11VAC, 12VDC
Environmental Temperature	Transmitter -20~+60°C, Sensor -20~+80°C
Protection Class	Transmitter IP 67, Sensor IP 68
Cable	Based on Requirement
Probe Installation	Based on the level range
Dead Band	0.3 to 0.8m (min)



## Product Ordering Information

### Order Code for Ultrasonic Level Transmitter Decodification

Measuring Range	Description	Code
	0 to 4 m	LT 04
	0 to 6 m	LT 06
	0 to 8 m	LT 08
	0 to 12 m	LT 12

Communication Output	Description	Code
	4-20 mA (2 Wire)	1
	RS 485	2
	HART V7.6	3

Display Mounting Type	Description	Code
	Integral	I
	Remote	RE
	Without Display	WD

Enclosure Protection class	Description	Code
	IP 65	1
	IP 67	2

Ex. Class Type	Description	Code
	Non-Critical Weatherproof	WP
	Flameproof (Zone IIA, IIB And IIC)	FLP

Enclosure MOC	Description	Code
	Plastic	P
	Aluminum	AL

Sensor MOC	Description	Code
	ABS	A
	PVC	PV
	PTFE	PT

Cable Entry	Description	Code
	M20 x 1.5	M
	1/2 NPT	N

Process Connection Type	Description	Code
	Flanged End	F
	Threaded	T

Accessories	Description	Code
	Mounting Brackets	MB
	FRP Panel	FP



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