



# NK Instruments Pvt. Ltd.

Manufacturer & Suppliers of Industrial Process Control Instruments



PRESSURE | VACUUM | DP | TEMPERATURE | FLOW | VELOCITY | LEVEL | VIBRATION | CONDUCTIVITY | pH | ORP | DO 2

## Magnetic Float type Level Transmitter with Digital Indicator

### INTRODUCTION

NK Instruments Pvt. Ltd. has Magnetic Float operated Level Transmitter with digital indicator, which is a reliable technique in industry to measure the height of liquid in the vessel for single or multiple liquid level sensing and control in open or pressurized vessels. It offers trouble free service in conductive and non-conductive liquids under widely varying temperatures, pressures, liquid viscosity and corrosive conditions. Besides, it provides high repeatability, and effects of shocks or vibrations are minimal.

### PRINCIPLE

Magnetic Float operated Level Transmitter with digital indicator consists of a Magnetic Float, the series of glass encapsulated hermetically sealed reed switches fixed inside of the SS non-magnetic guide tube and a Resistance to mA convertor. The magnetic float tracks the liquid surface in the vessel and magnetically activates an array of the Reed Switches in the tube. Series of Reed Switches is Resistance Chain which acts as the wiper of a Potentiometer. This change in resistance is measured by the Transmitter (converter of Resistance to the mA) mounted in the head mounted terminal housing.

This type of Level Transmitter can be mounted from the top or, bottom side of the tank or, externally through an external chamber. External mounting is adopted to overcome limited space within the tank or where mechanical devices like stirrers operate or where isolation tank is required for regular servicing. Float type Level Transmitter can be wired directly in loop power Indicator or, PLC, so that the power supply of 24 V DC will be provided to the Level Transmitter and 4 to 20 mA output in proportion to the Liquid Level will be fed to the Digital Indicator unit.



### CONTACT DETAILS

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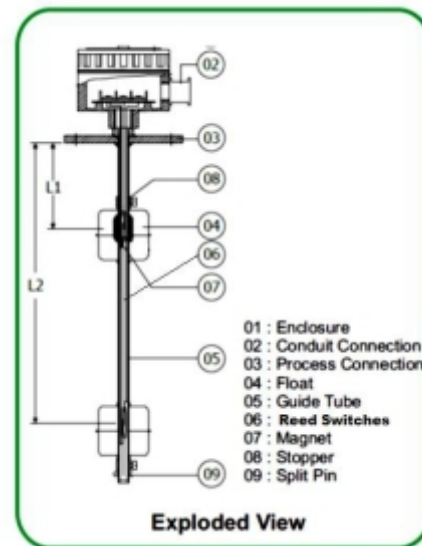
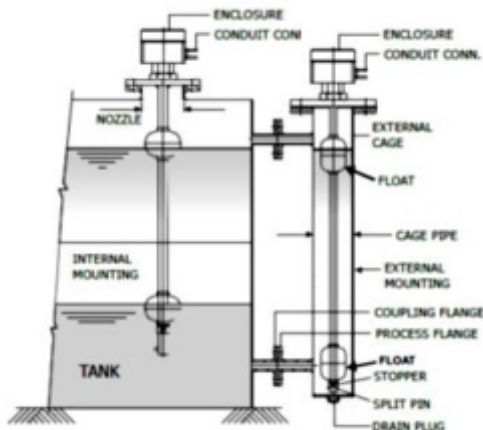
## SPECIFICATION

### DETAILS OF LEVEL TRANSMITTER :

Process Connection	: 2" ANSI 150# SS flange (Standard)
Minimum Density of liquid	: 0.75
MOC of Float, Stopper and Stem	: SS304 or, SS316
Power Supply	: 24 V DC
Output	: 4 to 20 mA loop powered
Zero and Span adjustment	: provision in the Terminal Housing

### DETAILS OF LEVEL INDICATOR :

Display	: 7 segment LED 4 X 1 line (or, LCD)
Mounting	: Panel mounted
Dimensions	: 96(W) X 96(H) X 100(D) mm or, 96(W) X 48(H) X 110(D) mm
Power Supply	: 230 V AC, 110 V AC or, 24 V DC (As per clients requirement)
Input	: 4 to 20 mA from Level Transmitter
Output	: 4 to 20 mA or, Relays (As per clients requirements)



Continuous efforts for product development may necessitate changes in these details without notice

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