

# MAGNETIC LEVEL GAUGE

## INTRODUCTION

Magnetic level gauge is a most reliable instrument where direct level measuring is required. It can be used with level transmitter.

## FEATURES

- Rugged construction
- Easy mounting with flanged connection
- Low maintenance
- Continuous level monitoring (with use of transmitter 4-20mA output)
- Direct visible level indication
- No process fluid in contact with the level indicator.
- Economical measurement solution
- Suitable for Interface level application
- Safe for high temperature, high pressure applications
- Safe for corrosive, toxic, flammable liquids
- Available in different range of materials
- Assured level indication without power supply

## APPLICATION

- Chemical, petrochemical industry, Oil Refineries
- Pharmaceutical industry
- Pressure vessels, Storage tanks
- Marine industry
- Water & waste water treatment plants
- Underground tanks
- Pulp and paper
- Others



## CONSTRUCTION & OPERATING PRINCIPLE

- It consists of a chamber with process connection, float with magnet fixed inside, indicating system & transmitter if applicable.
- Float designed to suit the specific gravity of liquid.
- Indicating system is mounted on chamber dia. with clips.
- The level of liquid inside the level gauge chamber is same as the liquid level in the tank.
- Float moves up & down with the rising or falling liquid level.
- Indicating system contains rail of magnetic flappers with two colours (Red & white) on opposite sides.
- These flappers get rotated by 180 degrees as the float moves up or down with rising or falling liquid level.
- The repelled series of flappers shows level directly on the indicated system.
- As the float rises with the liquid level the flappers gets rotated & red colour changes to white or vice versa.
- White - indicates empty tank & Red or yellow - indicates filled liquid level in the tank.
- Other coloured flappers can be used as per customer requirement.
- Scale mounted on indicator unit permits quick determination of liquid level.

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## SPECIFICATIONS

All specifications at ambient of 25 °c, unless specified otherwise

Mounting	Top/ Side
Centre to centre Distance	max
Visibility	max
Repeatability	
Resolution	10 mm
Process connection	Flanged
Vent connection	Flanged/Plug
Drain connection	Flanged/Plugged/Valve
Enclosure	Cast Al w proof to IP 66 or Ex proof to Gr IIA & IIB or IIC
Conduit connection	½" NPT, ¾"NPT
No. of Floats	Single
Float size	Ø
Float Material	SS304/SS316/PP & others
Indicating system	
Housing	Stainless Steel
Flappers	Aluminium
Tablet	
Max. Temperature	
Max. Pressure	
Sp. Gravity of fluid	XXXXXXX
Wetted Parts	SS304/SS316/PP & OTHERS
ACCESSORIES	
Scale	SS304/SS316 & OTHERS
Limit Switch	
Transmitter	
Special feature	
Installation	Top mounting & side mounting are the two ways of the installation of the Magnetic level gauge

## ORDERING INFORMATION

Order code : 2536

Model no, liquid, Sp.Gr., Op.Temp & Pressure, Guide tube length(mm), Preset levels, Reed switch action at preset level  
In case of Ex-cage specify CCdist, process conn size & MOC

CAT#505R0

### ENQUIRIES

**Instruments:** sales@radix.co.in  
**Sensors:** sensors@radix.co.in  
**Gauges:** gauges@radix.co.in  
**Automation:** automation@radix.co.in

**RADIX ELECTROSYSTEMS PVT LTD**  
EL-135/136/137, Electronics Zone  
TTC Indl. Area, MIDC, Mahape  
Navi Mumbai - 400 710, India  
Cell : 0-8451040263 | sales@radix.co.in

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