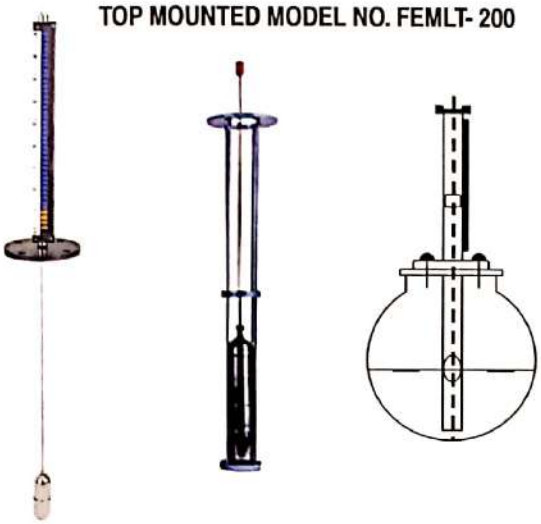
MAGNETIC LEVEL INDICATOR

A safe and reliable method to measure levels of corrosive acids, toxic liquids, solvents, vegetable oils, fuel oils, Liq. Gases.

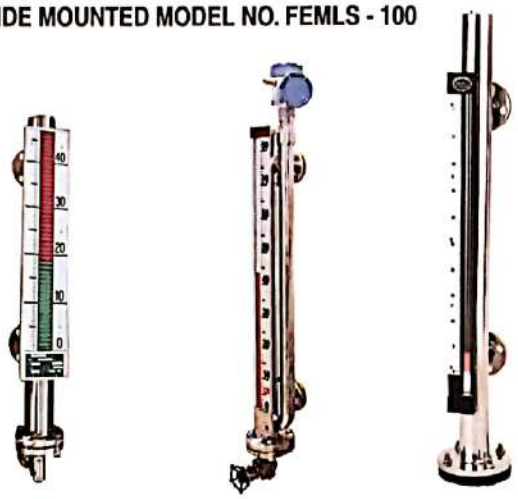
WORKING PRINCIPLE

A Float of compatible MOC, carrying a magnet, is immersed in the liquid and moves due to buoyancy. The movement is conditioned within a SS Float Chamber. External to the Float Chamber is a Glass Tube carrying a Magnetic Follower and an Indicating Assembly consisting of magnetic strips. The magnet on the Float and the magnet on the Magnetic follower are coupled to move in unison. When the Float moves along with change in liquid level, the Magnetic Follower moves in unison inside the Glass Tube and PVC magnetic strips thereby allowing clear visibility of level.

TOP MOUNTED MODEL NO. FEMLT- 200



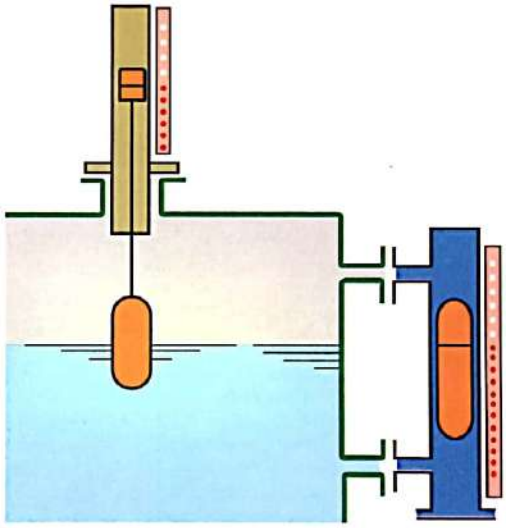
SIDE MOUNTED MODEL NO. FEMLS - 100



DETAILS REQUIRED FOR QUOTATION

(Top Mounted Magnetic Level Indicator - Model No.: FEMLT -200)

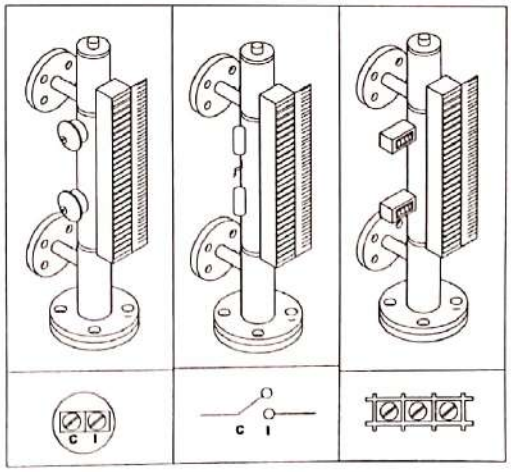
1)	Height of the tank & height of the nozzle welded on it
2)	Name of the liquid
3)	Material of construction of wetted parts
4)	Specific gravity of the liquid
5)	Operating temperature
6)	Operating pressure
7)	Top nozzle detail on which you are intending to mount level indicator



DETAILS REQUIRED FOR QUOTATION

(Side Mounted Magnetic Level Indicator - Model No. FEMLS-100)

1)	Center to center distance
2)	Service/name of the liquid
3)	Material of construction wetted parts
4)	Connection detail
5)	Specific gravity of the liquid
6)	Operating temperature
7)	Operating pressure



MAGNETIC LEVEL INDICATORS

Product data information

Flow & Control System
Process Management

Your application is unique. All MLIs are custom-made based on your requirements

Style A

Flanged top and bottom, no top and bottom blind, no side process connection

Style B

Flanged top and bottom with side(s) process connection

Style C

Closed top, flanged bottom with side(s) process connection

Style D

Flanged top, closed bottom with side(s) process connection

Style L

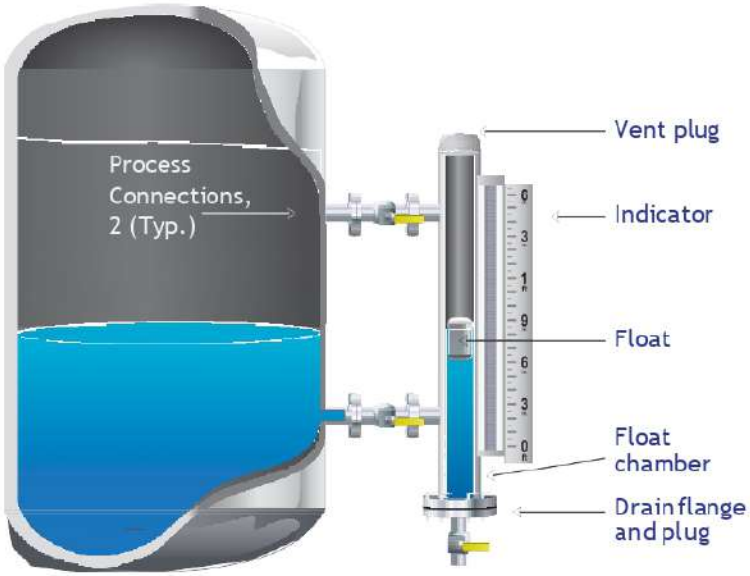
Closed top and bottom with or without side(s) process connection

This is how it works

Mmagnetic level indicators consist of a chamber, a magnet equipped float which rises and lowers with the fluid level, and an indicator which is mounted to the chamber.

The indicator houses a column of small flags which indicate the level of the fluid in the chamber, based on the position of the float. As the fluid level rises and lowers, the float rises and lowers as well, and the flags are tripped from one orientation to the other; typically the red side indicates the liquid level and the silver side indicates the vapor space.

As the float rises and falls with the process level, tripping the flags, it also stimulates any attached transmitters and switches, providing a signal back to the control system.



Options required by the application

	Typical construction	Optional as required
Chamber material	300 Series stainless wetted parts	Other non-ferrous materials that do not exhibit ferro-magnetic properties such as Hastelloy, CB20, Inconel, Monel 400 and T-321 stainless
Chamber pipe	2½" S10 or S40 welded pipe depending upon the application pressure, temperature and corrosion allowance	2", 3", or 4" may be required or pipe schedules up to S160 or XXS depending upon application requirements
Chamber flanges	Typically supplied ANSI B16.5 RF slip on type, 500 RMS, in 300 Series stainless steel	Common upgrades are ANSI weld neck style, socket weld, or lapjoint, and other flange faces such as RTJ or flat face
Process connections	1" 3000# FNPT unless otherwise specified; vent and drains are ½" 3000# FNPT	As with chamber flanges, upgrades to process connections, vents and drains are ANSI weld neck style, socket weld, or lap joint, and other size or rating NPT or socket weld connections
Float assembly	300 Series stainless steel suitable for applications up to 1000 psig and 0.63 S.G. at temperatures from -320 to 1000 °F (-196 to 538 °C)	Magtech floats are available in a wide variety of materials, for pressures to 3400 psig (234 bar), and in low pressure applications, minimum specific gravities down to 0.40 (lower SG could be possible under certain conditions, please consult factory)
Indicator	Brightly colored red and contrasting silver all metal, high temperature design reading in feet and inches with ½" divisions; approximately 1/3" resolution	Optional all stainless steel housing construction is available for severe environments. In addition, other indicator colors, units of measure or follower type may be specified.
Chamber design	Float chamber is designed to ANSI B31.1 and B31.3, and ASME Boiler Code PG60. Welding and welder qualification in accordance with ASME Section IX.	Non-standard welding procedures, qualifications or testing may be supplied if required, as well as designs to proprietary customer design specifications
Testing	Functional and calibration test is performed on every Magtech gauge	Additional testing and documentation, such as MTRs, radiography, hydrostatic pressure tests, PMI, dye penetrant, NACE or witness testing are available if required

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