

Frequently Asked Questions (FAQ)

Engivative Level Indicator

1 What is application or use of this level Indicator?

This level indicator designed for comfortable and safe view of tank liquid level for measurement and control purpose. The basic unit is only for view of level. For controlling and alarm purpose, a separate different design level indicator is available.

2 How it works?

It works on volumetric displacement of air due to liquid column in the tank. It require a small hole on top of tank for deep pipe as a sensor.

3 Is this level indicator need to replace any component frequently?

No. It works without any specific maintenance. Periodically if may need to replace level sensing fluid if observed contamination or loss after few months.

4 Does it requires electrical power to operate?

No. It works without any external power or any utility services for tank level display only. But if level indicator provided with electronic sensors, it needs electrical power to give alarm, sound or on off system.

5 What is calibrating frequency?

Calibration frequency depends on nature of fluid properties and installation location. It needs to verify once in 3 months. Avoid leakage in indicator and its tubing to have perfect level indication. Also, avoid air entry in deep pipe from any possible source.

6 Suitable liquids for level display in Indicator.

We may select any compatible liquid. We may use, water, oils, petroleum products, chemicals or any other specified and approved liquid, which will not react with level display unit and tank content. In addition, there is no direct contact of tank liquid and level sensing fluid but vapour may be exchanging. Generally, company provides Glycerine in common supply.

7 What is life of Level Indicator?

Level Indicators are generally installed open to sky, hence facing all atmospheric weather conditions. We manufacture level indicators in Plastic and Metals. For domestic and non-industrial area, plastic level indicators are preferred. While for industrial application, Stainless steel or special metal level indicators are preferred. Metal level indicators are having long lifespan by replacing only transparent portion if it becomes opaque after use of few years. While in non-metal level indicator, nothing is replaceable. However, we may get life of at least 5 years.

8 What is life of Level sensing fluid?

Level sensing fluid suitable until it is clear and free from sludge. Some liquids are having expiry date that needs timely verification and replacement. We prefer to replace it once in a year. During routine observation if observed loss of level, top up same quality of level sensing liquid.

9 Where to purchase?

Visit www.engivative.com to locate your nearest dealer or service centre. You may purchase online or directly from company.

10 Where we will get it serviced? Where spare parts will be available?

Visit www.engivative.com to locate your nearest dealer or service centre. You may ask directly to company for required support.

11 Is this possible to magnify level of tank for better view?

Yes, it is possible to show tank level with magnification compared to actual depth. For this need, we need to get specially developed level indicator for specific application.

12 Is this possible to reduce display height of level indication?

Yes, it is possible to show tank level with reduction compared to actual depth. Generally, our standard products are with reduced scale display only. However, if you wish to have some specific height, please ask company to have further information.

13 How to know error in calibration?

Calibrate level indicator with respect to tank and use stickers provided with unit to make tank specific level record. If any variation observed, it may be due to loss of level sensing fluid or leakages in threaded joints. For such errors re calibration of level indicator is essential to view correct level of liquid.

14 Cost of Level Indicators?

Cost of level indicator starts from Rs. 4000/- onwards as per specific MOC, specific Size and depth of tank.

15 How to re calibrate level indicator?

Empty the tank & check display. If observed indication below bottom zero level, make up level sensing fluid until its level display to zero tank level in transparent tube. If observed level sensing fluid above zero level in empty tank, check the source of contamination. If level sensing liquid is clear, drain some quantity through drain point & tight it again. Now fill the tank. Level indicator will show correct reading.

If convenient, instead of empty out tank, we may remove level sensing deep pipe from top and check level in display unit. After complete dsrain out of level sensing deep pipe, display should be reaching to zero level. If not make up level sensing liquid and again insert deep pipe in tank from top without dismantling connected hose pipe of display unit.

16 Can we use level indicator for tanks with higher depth compared to ordered depth of tank?

No. We can use level indicator for specified level only. If by mistake, if depth of tank increased, the level sensing liquid will come out from vent point of display unit or air will enter in display unit which will show wrong level display. Once level sensing fluid overflows, do not use it as is. Makeup the level sensing fluid until bottom zero mark and then fill the tank.

17 Is there is possibilities of damage of unit if fallen from a height?

If plastic level indicator fallen from height, it may damage internally or externally which may be not repairable. However, for metal level indicator, we may replace its transparent top portion and use again after servicing.

18 Can we install level indicator in tilted condition?

Level indicator display unit must be in vertical plumb to show correct liquid level in the tank. The display unit is having liquid for its functioning. If we keep in slightly wrong position, the level indication may be wrong. up to 20 degree tilting, there may be no effect, but onwards, there may be loss of level sensing liquid and disturbance in display of level.

19 Can we repair level indicator?



The plastic level indicator is having complete assembly, which cannot be dismantled. Hence, if we observe any crack or malfunctioning please contact your area authorised dealer or company for further information. The metal level indicator is having facility to replace its transparent tube only by company or authorised service providers.

20 How much liquid is required for level sensing display unit?

It depends on size of level indicator. It ranges from 400 ml to 3000 ml.

21 If bubbles observed in display unit?

During use, if bubbles observed coming out from level indicator top, it may be reason that by mistake it was submersed in depth more than design.

22 How to install wall mounted or remote located level indicator display?

Wall or remote located level indicator comes with mounting bracket and hosepipe. Please visit www.engivative.com and review the video demonstration.

23 What is maximum possible error in level display?

The indicator displays level proportional to displacement in tank level. But over a period if there is drastically variation in ambient temperature, it may reflect in level display error maximum up to 5%. But in our display unit, the scale of display is reduced, hence this variation is even not noticeable. The tanks which are subjected to empty out and filled frequently, may not have such effect of ambient variation.

24 Installation care?

During installation, following care to be taken for better performance.

- Install level display unit in vertical plumb.
- Level sensing deep pipe should be away from incoming and outgoing piping.
- No air source should be available at bottom point of level sensing pipe.
- All threaded joints must be tighten firmly with thread sealant such as Teflon tape, O ring or special grease to prevent even minor leakages.
- Verify that hose pie is free from any liquid or other blockages.