



## Prismatic Oil Level Indicator

The Prismatic Oil Level Indicator is designed to provide continuous visual indication of the oil level in the conservator tank of oil-filled transformers. It enables quick and accurate monitoring of oil levels without the need for external power or complex mechanisms.

The indicator operates on the principle of light refraction through a prism. Depending on the oil level inside the conservator, the prism displays distinct color indications, allowing operators to easily determine whether the oil level is within the acceptable operating range.

The robust construction and maintenance-free design make the Prismatic Oil Level Indicator a reliable solution for transformer oil level monitoring in both indoor and outdoor installations.

### Construction

The Prismatic Oil Level Indicator consists of a durable housing fitted with a specially designed optical prism mounted on the conservator tank. The prism assembly is positioned such that changes in the oil level alter the light-reflection characteristics, producing a clear visual indication of the oil condition.

The unit is manufactured using corrosion-resistant materials and is provided with suitable sealing arrangements to ensure leak-free operation and long service life under varying environmental conditions.

## Working Principle

The indicator works on the principle of optical refraction and reflection.

- When the prism is in contact with oil, light passes through the prism differently, producing one visible color indication.
- When the prism is exposed to air due to a low oil level, the light reflection changes, producing a contrasting color indication.
- This allows operators to instantly identify whether the oil level is adequate without opening the conservator or using auxiliary measuring devices.

## Features

- Direct visual indication of transformer oil level
- Simple optical operating principle
- No moving parts
- No external power supply required
- Maintenance-free operation
- Clear and easily distinguishable color indication
- Leak-proof and weather-resistant construction
- Suitable for indoor and outdoor applications



## Advantages

- Quick and easy oil level monitoring
- Highly reliable due to absence of moving components
- Long service life
- Minimal maintenance requirements
- Resistant to vibration and environmental conditions
- Improves transformer operational safety
- Economical and cost-effective solution

## Applications

Distribution Transformers

Power Transformers

Conservator Tanks

Oil-Filled Reactors

Electrical Substation Equipment

Transformer Retrofit and New Installation Projects

## Parameter

## Specification

|                     |                                                  |
|---------------------|--------------------------------------------------|
| Type                | Prismatic Oil Level Indicator                    |
| Operating Principle | Optical Refraction and Reflection                |
| Mounting            | Conservator Tank Mounting                        |
| Power Requirement   | Not Required                                     |
| Indication          | Visual Color Change                              |
| Construction        | Corrosion-Resistant Materials                    |
| Application         | Oil-Filled Transformers and Electrical Equipment |
| Maintenance         | Practically Maintenance-Free                     |

## Benefits

The Prismatic Oil Level Indicator provides a simple, reliable, and cost-effective method for monitoring transformer oil levels. Its maintenance-free operation, clear visual indication, and rugged construction help improve transformer reliability while reducing inspection time and maintenance costs.

