



## Aerospace Sensing & Controls

Sight Gauges/ Sight Plugs

Eaton's Tedeco® brand Sight Gauges are available in many configurations to meet specialized level viewing needs. In addition to the conventional viewing glass, a high-contrast design provides superior readability for all fluids.

Because staining from oils and hydraulic fluids often occurs, Eaton offers a high-contrast lens option, enabling easy readability despite residual pigmentation.

Colorless or colored fluids are easily visible regardless of ambient light. This is made possible by a series of refraction grooves that allows the lens surface to reflect more than 90% of the incident light vs. 30-40% with conventional gauges.

Sight Gauges can be supplied in different materials, allowing for diverse applications. For instance, lenses can be tempered glass or quartz. A quartz sight glass for a gas turbine engine oil reservoir is certified to withstand direct flame exposure at 2000°F for fifteen minutes. Another variation is a level blister in which the glass extends beyond the frame to allow easy readability from any angle.

Markings to customer specification can be incorporated.



### Features

- Indicates wide level changes
- High-contrast option for improved readability
- Sturdy construction for harsh environments
- Easy-to-read

### Options

- Aluminum or stainless steel frame
- Glass or Quartz lenses
- Normal or extended glass blister for angled viewing
- Customized markings

### Special Notes

Eaton has extensive state-of-the-art in-house testing facilities, including vibration, shock, and environmental capabilities. We will design for your specific requirements, applications, and specifications. Please contact our Sales Department or our website for answers to your specific needs.

## Sensing & Controls

### Sight Gauges/ Sight Plugs

Eaton's Oil Eyes are compatible with fuels, oils, hydraulic fluids, refrigerants and water. The window, seal, and body materials can be altered to meet a wide range of temperature and pressure ranges.

A bright stainless steel reflector allows clear viewing of the liquid level while dampening fluid agitation. For colorless fluids, a float ball can enhance visibility. Normally hollow aluminum, the ball can be colored propylene for lower temperature applications (up to 200° F).

High contrast Oil Eyes offer superior legibility of the fluid level, regardless of the liquid coloration. The concentric grooves provide a prismatic effect that causes a distinct interface between the fluids and the open space above. The high contrast design reflects more than 90% of the incident light compared to a conventional design that reflects only 30 to 40%. This feature provides extended service life by tolerating internal staining under prolonged exposure to oil, particularly synthetic oils at elevated temperatures. The staining is not mistaken for the actual oil level. If required, the internal glass surface is accessible for cleaning.

#### Features

- Rugged construction for harsh environments
- High-contrast glass option for improved readability
- Designed to exacting Aerospace specifications
- Easy-to-read

#### Options

- Aluminum or stainless steel frame
- Glass or Quartz lenses
- Normal or extended level for angled viewing
- Customized markings



**Sight Plugs (Oil Eyes)**



**Bubble Sight Plug**

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