



## 039 Liquid Level Gauge Remote Enclosure

The 039 Liquid Level Gauge Remote Enclosure is designed for continuous monitoring of oil levels in transformer main tanks, conservator tanks, or load tap changer compartments. It combines a local mechanical gauge with an electronic remote module, enabling both visual and electrical outputs for enhanced transformer protection. The remote module includes offset and gain adjustments for precise alignment with the local gauge, making it ideal for installations where direct viewing is difficult.

- Magnetically coupled level gauge allows remote placement of the indicator for safer, more convenient access
- Easy-to-read "min-max" style dial with optional custom printing
- Alarm triggering capability via integrated switches on the local indicator
- Electronic output compatibility with SCADA systems and Qualitrol 509 monitors
- Offset and gain adjustments for precise matching between local and remote readings
- Durable die-cast aluminum casing with thermosetting powder coat finish
- UV-stabilized polycarbonate lens resists yellowing over time
- Weatherproof remote indicator available with NEMA 3R enclosure
- Remote indicator available with NEMA 3R-rated enclosure for environmental protection
- Custom-printed dials for specialized visual requirements
- Selectable SCADA output formats: 0–1 mA or 4–20 mA
- Optional heater for extended low-temperature operation
- Humidity tolerance upgrade for high-moisture environments
- Custom-engineered models available through application support

## Applications

- Transformer main tanks
- Conservator tanks
- Load tap changer compartments
- Power utilities
- Industrial equipment
- High-voltage transformer systems

## Environmental

### Vibration Resistance

60-120 Hz, .004 displacement

### Ambient Humidity

Case 10 - 100%

Remote indicator: 10 to 100%  
with optional NEMA 3R enclosure  
Remote indicator: 10 to 90%  
(standard)

### Ambient Operating Temperature Range

-20°C to +72°C

-40°C to +72°C with optional  
heater

### Shock Resistance

10 G's Horizontal Plane

## Materials

### Finish

ANSI #70 Powder coat (standard)  
C5-High (optional)

### Float Material

Cork  
Nitrophyl

### Lens

UV stabilized polycarbonate

## Electrical

### Switch Rating

1/3 HP @ 120 VAC

10A @ 120/240 VAC

10A @ 30 VDC

### Cable Length

75ft max (22.9m)

### Input Power

120/240 VAC +/- 15%, 50/60 Hz

### SCADA Output

Current load: 0-1 mA (0-10k ohms)

Current load: 4-20 mA (0-500 ohms)

### Span Sense Accuracy

+/- 5% (of full scale)

### Switch Setting Repeatability

+/- 3% (of full scale)

### Switch Type

2 Dry type (SPDT) relays

### Dielectric Strength

2000 VAC for 60 seconds (TB1-2 to 15  
PCB only. Do not hi-pot case assembly)

## Mechanical

### Gauge Diameter

178 mm

### Mounting Style

Flange Mount

### Dial Diameter

5.5 inch

### Electronic Remote Module

6.00 x 9.50" (152.4 x 241.3mm)

### Gauge Diameter

7 inch

### Case

Die-cast aluminum