

# VERTICAL PROTECTION RELAY WITH INDICATOR For Hermetically Sealed Oil Filled Transformers



Series 800



Series 811

## FEATURES

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- Monitors oil level in Hermetically sealed transformers.
  - Precise switch operation on falling oil level.
  - All Aluminium and Brass constructions, suitable for extreme weather conditions.
  - Gas collection valve or indicator dial options also available.
  - Available in two standard sizes.
  - Free moving float for a continuous and instantaneous level.
  - Use of Nitrophenyl® float suitable for all types of transformer oil.
  - Highly visible indicator for oil level for 800 series.
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**VIAT**

**INSTRUMENTS**

VI-C01C(R1)

**A House of  
Transformer  
Accessories**

# VERTICAL PROTECTION RELAY

## Application:

Vertical Protection Relay (VPR) monitors the oil level in hermetically sealed transformers (further referred as HST) eventually protecting the transformer. Falling level of oil in the fill pipe of HST operates a switch contact. In a transformer VPR may replace the G1 1/2" pipe plug.

## Operation:

The float is at its topmost level when the transformer is filled with transformer oil to the correct level. With the fall in oil level, the float also comes down. At a pre-determined height the switch contact closes and operates the alarm. On rising oil level, the switch resets at approximately 20mm above the alarm point. Additionally, in select models a needle displays the oil level inside the tank and is defined within three zones Green, Yellow and Red with green scaling from full at green to low at red.

## Mounting:

Please select the correct model number based on the required length. Sufficient margin should be left for the height of gas cushion and that of threaded coupling on the tank cover.

## Technical Specifications

### Material:

Body	Aluminium alloy
Tube	Brass
Indicator Dial	803 Series : Max & Min markings 804 Series : High contrast dial
Indicator Glass	UV protected Polycarbonate

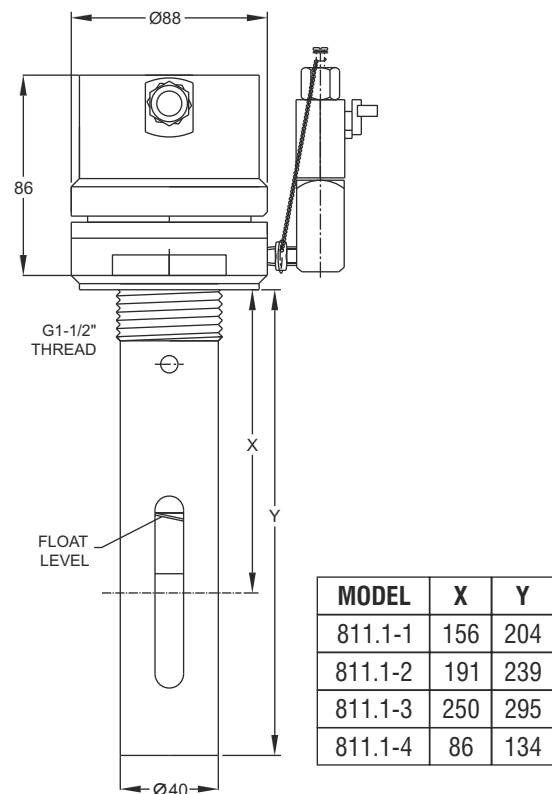
**Mounting:** Vertical Thread type with 1 1/2"

**Operating Temperature:** -40 to 125°C (-40° to 257°F)

**Max. Operating Pressure:** 1.0 Bar

**Switch Rating :** 5A; 250V AC or 0.2A; 250V DC

The 811 series can also be equipped with a gas sampling valve as shown in the figure below.



811 with Switch and Optional Gas Sampling Valve.

Please contact us for ordering form and any further details.

NOTE : Nitrophenyl® is a registered trademark of Rogers Corporation, USA.

Due to our policy of continuous product improvement, dimensions and designs are subject to change.



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