



PRESSURE-VACUUM GAUGES & SWITCHES

A common design methodology for oil filled transformers, regulators and other electrical equipment provides a gas space above the oil. After the tank is filled with oil to the 25 degree centigrade level, the oil is blanketed with a positive gas pressure. The positive gas blanket provides a moisture barrier and room for the oil to expand. Normal equipment operation and changes in the environmental temperature cause changes in the oil and gas volume. The oil and gas expand when heated and contract when cooled. The expansion causes an increase in the gas pressure and the contraction causes a decrease in the gas pressure. Heartland HPG pressure/vacuum gauges measure and indicate the gas space pressure or vacuum while the switches work with the gas control system to maintain proper gas levels in transformers, regulators and other electrical equipment.

Various ANSI and industry standards specify pressure/vacuum gauges to measure and indicate the gas pressure in oil filled transformers, regulators and other electrical equipment. Heartland HPG pressure/vacuum gauges meet or exceed these standards. They reliably measure and indicate the gas pressure in either indoor or outdoor transformers, regulators and other electrical equipment.



Heartland Solutions developed the HPG family of pressure/vacuum gauges and switches to support all possible applications in electrical equipment. Heartland offers an HPG model that meets the ANSI standard -10 PSI to +10 PSI range requirements and HPG models with extended ranges of -15 PSI to +15 PSI and -100 kPa to +100 kPa.

The pressure/vacuum gauge is typically used in an instrument cluster which includes a liquid level gauge and temperature gauge. Consult the liquid level gauge and temperature gauge datasheets for information.

FEATURES FOR GAUGES

- Laser sharp white markings on flat-black background
- Low profile Stainless Steel cover
- Vented case abates condensation
- Corrosion resistant Brass 1/4" - 18 NPT connection with precision threads
- High impact resistant UV stabilized Polycarbonate len
- Crystal-clear, removable len with thick gasket
- Pointer adjustment with only a screwdriver
- Durable precision Brass movement reduces wear
- Sensitive Copper Bourdon tube ensures reliable measurement
- Plus or minus 2% accuracy over middle range and +/- 3% over the balance of the range
- Suitable for outside application
- Meets and exceeds ANSI and IEEE Standards

FEATURES FOR SWITCHES

- SPDT Form C with 1/4" Spade Terminals
- -1.5 and -3.0 PSI vacuum and +8.5 PSI pressure available

HEARTLAND GAUGE ONLY MODEL NUMBERS

- HPG-2000 +/- 10 PSI, ANSI Model
- HPG-2500 +/- 15 PSI, Extended Pressure Range
- HPG-2510 +/- 100 kPa, Industry Standard

HEARTLAND GAUGE/SWITCH MODEL NUMBERS

- HPG-2125-01 +/- 10 PSI Gauge, with (1) -1.5 PSI vacuum switch and (1) +8.5 PSI pressure switch
- HPG-2625-01 +/- 15 PSI Gauge, with (1) -1.5 PSI vacuum switch and (1) +8.5 PSI pressure switch
- HPG-2625-02 +/- 15 PSI Gauge, with (1) -3.0 PSI vacuum switch and (1) +8.5 PSI pressure switch

