



Operating Instruction
for
U-Tube Manometer/Pressure Gauge

Model: PUM



The KOBOLD PUM-series U-Tube manometer is a simple, yet reliable device for indication of low pressures (0 - 150 mbar). The construction of the device is the classical U-shaped glass tube, which is mounted to an aluminum retainer plate. The retainer plate bears a 2 mm graduated scale, which ensures direct reading of the pressure in mm when the tube is filled with water.

Connection to the device is through two, Ø 7 mm hose connections at the ends of the glass tube. A pressure difference moves the liquid column within in the glass tube in either direction. The difference of the two ends of the liquid column can be easily determined with 2 mm accuracy. The scale is formed in such a way so that it is unnecessary for the liquid column to start at "0" when the device is in a "no-pressure" state.

Mounting of U-Tube Manometers: Mount to a vertical surface through the mounting hole in the scale.

Filling the U-Tube Manometer: Open both fittings to atmosphere and slowly add water until it approaches the zero point on the scale. Note that the scale is formed in such a way so that it is unnecessary for the liquid column to start exactly at "0" when the device is in a "no-pressure" state.

To read the total amount of positive pressure (or vacuum), simply add together the measurements indicated by the top and bottom liquid levels.

Manometer Operation: Connect either side to pressure or vacuum, leaving the other side open to atmosphere. Add together the readings above and below zero. It is normal for the two sides to have different readings and has no effect on accuracy. For differential pressure, connect both the high and low fittings. Add the readings above and below zero on the scale.

Maintenance: Avoid using fluids other than those specified for accurate readings. Corrosive fluids may damage the manometer. A mild soap solution can be used to clean the tube if required.

If return is needed contact KOBOLD customer service to receive a return material authorization (RMA) number before shipping.

