

Operating Instructions for U-pipe Pressure Gauges

Model: PUM



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2. Note

Please read these operating instructions before unpacking and putting the unit into operation. Follow the instructions precisely as described herein.

The instruction manuals on our website www.kobold.com are always for currently manufactured version of our products. Due to technical changes, the instruction manuals available online may not always correspond to the product version you have purchased. If you need an instruction manual that corresponds to the purchased product version, you can request it from us free of charge by email (info.de@kobold.com) in PDF format, specifying the relevant invoice number and serial number. If you wish, the operating instructions can also be sent to you by post in paper form against an applicable postage fee.

Operating instructions, data sheet, approvals and further information via the QR code on the device or via www.kobold.com

The devices are only to be used, maintained and serviced by persons familiar with these operating instructions and in accordance with local regulations applying to Health & Safety and prevention of accidents.

When used in machines, the measuring unit should be used only when the machines fulfil the EC-machine guidelines.

3. Instrument Inspection

Instruments are inspected before shipping and sent out in perfect condition. Should damage to a device be visible, we recommend a thorough inspection of the delivery packaging. In case of damage, please inform your parcel service / forwarding agent immediately, since they are responsible for damages during transit.

Scope of delivery:

The standard delivery includes:

- U-pipe pressure gauges model: PUM

4. Regulation Use

Any use of the device, which exceeds the manufacturer's specification, may invalidate its warranty. Therefore, any resulting damage is not the responsibility of the manufacturer. The user assumes all risk for such usage.

5. Operating Principle

The Kobold U-pipe pressure gauge model: PUM works on the basis of the hydrostatic principle. It is used for measuring differential pressure in low range (max. 150 mbar).

The “U” tube differential manometer model: PUM has to be filled up with distilled water up to close the “0” point in the middle of the glass tube. After it the connected pressure will increase the level of the water in the one side of the manometer. The level of the water will be decrease in the other side of the tube. The differential pressure is equal to the distance of the two levels of water in the “U” tube in water column millimeter. The distance between the two level can be read easily by the scale on the housing.

6. Mechanical Connection

Before Installation:

- Remove all transportation safety locks and ensure that no packing material remains within the unit.
- Install the unit to a stable place and fix it against moving and upset.
- Fill the measuring tube up with distilled water up to close the “0” point in the middle of the glass tube.
- Install the “U” tube differential manometer in the piping system with flexible pipe, ensure the instrument is under no mechanical stress/tension.
- Be sure that the maximum allowable operating pressure and temperature is not exceeded (see Technical information).
- Protect the measuring tube from external damage.

7. Operation

Connect the pressure to the one side of the unit carefully. The result can be read on the scale in water column millimeter.

8. Maintenance

After the measuring the ends of the unit have to be closed to avoid the evaporation of the distilled water from the measuring tube. We recommend the frequent cleaning if you can see any crust or dirt inside the glass tube.

9. Technical Information

Operating instructions, data sheet, approvals and further information via the QR code on the device or via www.kobold.com

10. Order Codes

Operating instructions, data sheet, approvals and further information via the QR code on the device or via www.kobold.com

11. Dimensions

Operating instructions, data sheet, approvals and further information via the QR code on the device or via www.kobold.com

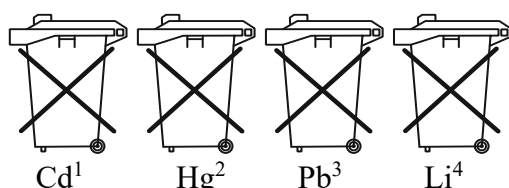
12. Disposal

Note!

- Avoid environmental damage caused by media-contaminated parts
- Dispose of the device and packaging in an environmentally friendly manner
- Comply with applicable national and international disposal regulations and environmental regulations.

Batteries

Batteries containing pollutants are marked with a sign consisting of a crossed-out garbage can and the chemical symbol (Cd, Hg, Li or Pb) of the heavy metal that is decisive for the classification as containing pollutants:



1. „Cd" stands for cadmium
2. „Hg" stands for mercury
3. „Pb" stands for lead
4. „Li" stands for lithium

Electrical and electronic equipment



13. EU Declaration of Conformance

We, KOBOLD Unirota Kft. Nyíregyháza Hungary, declare under our sole responsibility that the product:

U-pipe Pressure Gauges

Model: PUM-...

to which this declaration relates is in conformity with the standards noted below:

EN IEC 63000:2018 Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

Also, the following EC guidelines are fulfilled:

2011/65/EU
2015/863/EU

RoHS (category 9)
Delegated Directive (RoHS III)

Nyíregyháza, 10 May 2022



Dénes Szabó
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