sauermann KIMO INSTRUMENTS

Technical Data Sheet

Pressure / Temperature / Humidity / Air Velocity / Airflow / Sound level

PORTABLE MANOMETERS WITH VERTICAL LIQUID COLUMN

KM serie

Pressure / Depression

KEY POINTS

The KM vertical liquid column portable manometer, developed and manufactured by KIMO, measures low pressures in gas networks.

- **Easy to carry.**
- **"U"- shaped column for pressure and depression measurement.**
- **Direct read-off by moving the gratuated slide strip.**
- **Safety valves actuation for momentaneous overshooting of the scale.**
- **Fitted with valve connectors and mounting hook.**
- **Supplied with connection sleeves, a bottle of VOLT 1S liquid and carrying case.**

MEASURING RANGE

Reference	Measuring range	Resolution
KM 45	0 – 45 mbar	0.2 mbar

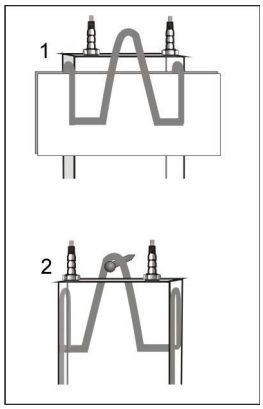
DIMENSIONS

Reference	**Dimensions** (height. x width x thickness)	**Weight** (with accessories)
KM 45	306 X 50 X 20 mm	550 g

TECHNICAL FEATURES

Recommended range of use	From +5 to +30°C
Possible range of use	From -30 to +60°C
Pression statique maximum	8 bars
Manometer body	15 mm thick transparent Altuglas.
Liquid column	Ø 4 mm bored into the solid block.
Graduated slide strip	Altuglas transparent
Zero adjustment	By moving the gratuated slide strip Fixed in place via milled, nickel-plated brass screw.
Manometric liquid	VOLT 1S, density 1.86 at 20°C.
Connection	On Ø 6.2 nickel-plated brass valve connectors, with 1m long neoprene tube fitted with dedicated end-pieces for gas equipment.

MOUNTING



1. Dismount one of the 2 connectors using a no.12 spanner and slacken the milled head of the other connector by one turn.
2. Check beforehand that the **slide strip** is at its **lowest level**.
3. Pour the liquid in the column using the spout.
4. Do not overfill. Never go beyond the NL line at the middle of the slide strip.
5. Remount the connector and screw the milled head of the other connector back down.

OPERATION

1. Hang up the manometer vertically by the mounting hook or hold manually.
2. Open to the air by slackening the milled heads of the 2 valves (one turn is sufficient).
3. Push one of the ends of the connecting tube firmly onto the right-hand valve. Push the other end of the tube onto the pressure point of the pipeline or the instrument which has to be checked.
4. The liquid, under gas pressure, decreases in the right column and rises in the left one. **If the gas flow occurs too hard and plays the safety valve,** repeat the operation by pinching the connecting tube more or less strongly to admit the gas more slowly (if the safety valve is working again, it is because the pressure control exceeds the measuring range of the manomters)
5. When the liquid has settled, **slide the graduated strip** so as to bring the zero mark opposite the right-hand tube's liquid level (lowest level).
6. The graduation corresponding to the **height of the liquid in the left-hand tube** indicates the exact gas pressure.
7. Close off the **2 valves securely** after operation

IMPORTANT :
· Only **VOLT1S liquid** will ensure precise measurement (slide scale graduation corresponding to the density of this liquid).
· Maximum static pressure : **8 bars**

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