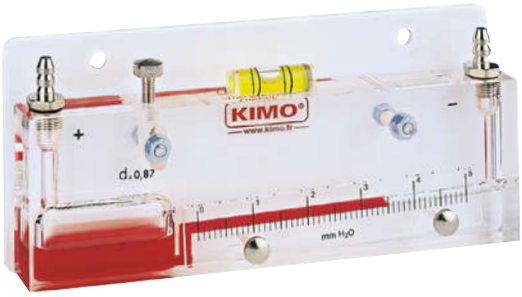
DATA SHEET



INCLINED LIQUID COLUMN MANOMETERS

HP series

Pressure / Depression

The HP range of inclined liquid column manometers, developed and manufactured by Sauermann, measure slight variations in pressure, depression or differential pressure of air or gas.
They are particularly recommended for measuring overpressures in clean rooms, operating blocks, laboratories, aseptic rooms, laminar flows...

- **High measurement sensitivity**
- **Very low pressure ranges**
- **Zero adjustment by moving the slide strip**
- **Integrated spirit level for adjusting horizontality**

Measuring range

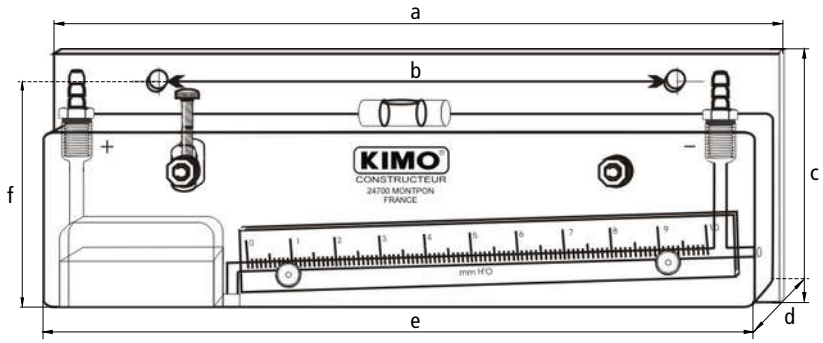
Reference	Measuring range		Sensitivity scale	Resolution
	mm H_2O	Pascal	For 1 mm H_2O or 10 Pa	
HP 5	0 - 5	0 - 50	20 mm	0.1 mm H_2O or 1 Pa
HP 10	0 - 10	0 - 100	15 mm	0.1 mm H_2O or 1 Pa
HP 15	0 - 15	0 - 150	10 mm	0.1 mm H_2O or 1 Pa

Supplied with a white PVC support, 2 screws and 2 rawlplugs, two 487 connectors and a bottle of AWS 10 liquid.

General features

Recommended range of use	From +5 to +30 °C
Possible range of use	From -30 to +60 °C
Maximum static pressure	6 bars
Manometer body	Transparent 20 mm thick Altuglas
Liquid column	Entirely bored in the solid block, Ø 4 mm
Graduated slide strip	Transparent Altuglas. Cross-section 20 x 2 mm
Zero adjustment	By moving the graduated slide strip, travel 12 mm. Fixed in place via milled, nickel-plated brass screw
Positionning	Horizontal positioning via integrated spirit level and milled, nickel-plated brass adjusting screw, vertical travel 12 mm
Manometric liquid	AWS 10 red oil, density 0.87 at 15 °C
Reservoir capacity	20 ml
Connection	Ø 5 x 8 mm semi-rigid crystal tube, on Ø 6.2 mm ribbed, nickel-plated brass connectors, 1/8 gas thread
Wall-mounted	With or without white PVC support

Dimensions



Reference	HP 5	HP 10	HP 15
a	184 mm	234 mm	234 mm
b	116 mm	166 mm	166 mm
c	80 mm	80 mm	80 mm
d	30 mm	30 mm	30 mm
e	180 mm	230 mm	230 mm
f	71 mm	71 mm	71 mm
Weight	340 g	430 g	430 g

Mounting

1. **Mount** on a wall or a vertical partition wall with two maximum **Ø 5 x 25 mm** screws (supplied).
2. **Set horizontality** using the integrated level and the milled adjusting screw.
3. **Unscrew the connector** on the reservoir and **slowly pour the manometric liquid** to zero point on the graduation.
4. **Remount the connector** without overtightening.
5. **Connect the manometer** with the **Ø 5 x 8 mm** crystal tube to the pressure or depression source to be checked.

Note:
For a **pressure** measurement: connect the crystal tube to the **right-hand connector (+)**
For a depression measurement: connect the crystal tube to the **left-hand connector (-)**
For a differential pressure: connect the highest pressure to the **right-hand connector (+)** and the lowest pressure to the **left hand connector (-)**

Maintenance: HP manometers require no special maintenance other than simply changing the reading liquid once a year.

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