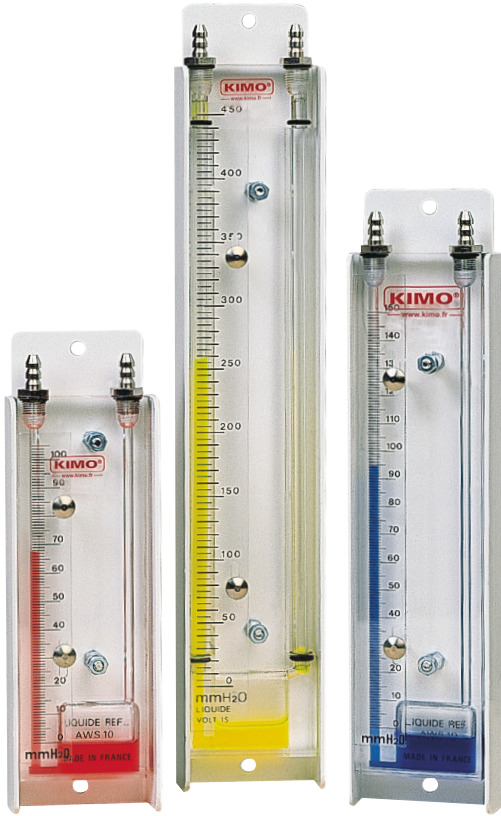


DATA SHEET



VERTICAL LIQUID COLUMN MANOMETERS



TJ series

Pressure / Depressure

The TJ range of vertical liquid column manometers, developed and manufactured by Sauermann, are mainly for measuring variations of pressure, depression or differential pressure of air or gas within measurement ranges which vary according to the type of manometric liquid used: AWS 10 or VOLT 15 (see table below).



"J"- shaped column for direct measuring



Zero adjustment by moving the slide strip



For fixed use regardless of the manometric liquid used



For portable use with the TJ model using VOLT 1S liquid

Measuring range

| | | | TJ 100 | TJ 150 | TJ 300 | TJ 600 | TJ 1000 |
|--|-----------------|---------------------|----------|----------|---------|----------|----------|
| AWS 10 liquid | Measuring range | mm H ₂ O | 0 - 100 | 0 - 150 | 0 - 300 | 0 - 600 | 0 - 1000 |
| | Measuring range | mbar | 0 - 10 | 0 - 15 | 0 - 30 | 0 - 60 | 0 - 100 |
| | Measuring range | Pa | 0 - 1000 | 0 - 1500 | - | - | - |
| Resolution: 1 mm H ₂ O or 0.5 mbar | | | | | | | |
| <th>TJ 100</th> <th>TJ 150</th> <th>TJ 300</th> <th>TJ 600</th> <th>TJ 1000</th> | | | TJ 100 | TJ 150 | TJ 300 | TJ 600 | TJ 1000 |
| VOLT 1S liquid | Measuring range | mm H ₂ O | - | - | 0 - 650 | 0 - 1300 | 0 - 2150 |
| | Measuring range | mbar | - | - | 0 - 65 | 0 - 130 | 0 - 215 |
| Resolution: 5 mm H ₂ O or 1 mbar | | | | | | | |

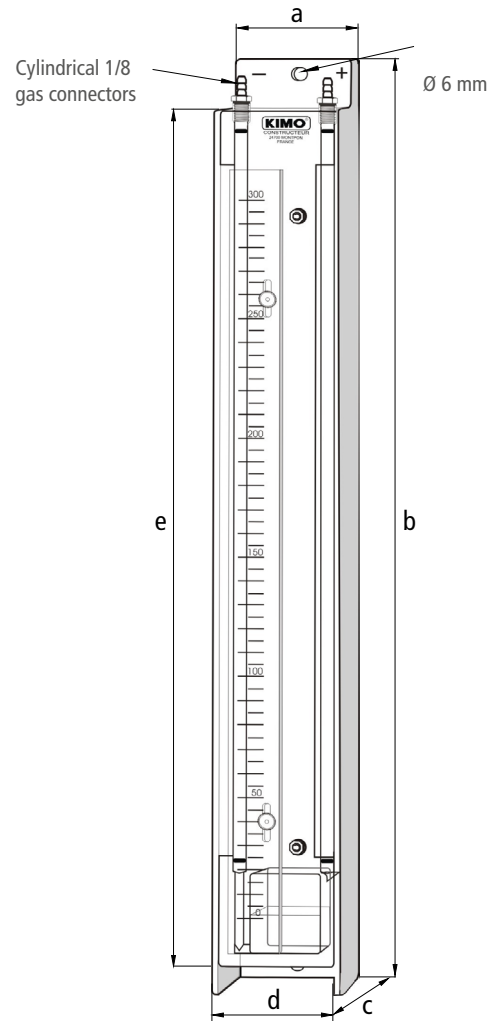
Supplied with a white PVC support, 2 screws and 2 rawlplugs, two 487 connectors and a bottle of liquid.

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 15 mm thick Altuglas |
| Liquid column | Ø 4 mm tube in extruded Altuglas |
| Graduated slide strip | Altuglas transparent. Section 23 x 3 mm |
| Zero adjustment | Moving the graduated slide strip, travel 15 mm. Fixed in place via milled, nickel-plated brass screw |
| Manometric liquid | AWS 10 liquid, density 0.86; VOLT 1S liquid, density 1.86 |
| Connection | Ø 5 x 8 mm semi-rigid crystal tube on Ø 6.2 mm nickel-plated brass ribbed connectors |
| Wall-mounted | With or without white PVC support |

Dimensions

| Reference | TJ 100 | TJ 150 | TJ 300 | TJ 600 | TJ 1000 |
|------------------------|--------|--------|--------|--------|---------|
| a | 57 mm | 57 mm | 57 mm | 57 mm | 57 mm |
| b | 185 mm | 243 mm | 430 mm | 777 mm | 1239 mm |
| c | 25 mm | 25 mm | 25 mm | 25 mm | 25 mm |
| d | 25 mm | 52 mm | 52 mm | 52 mm | 52 mm |
| e | 147 mm | 205 mm | 492 mm | 739 mm | 1201 mm |
| Distance between tubes | 171 mm | 229 mm | 416 mm | 763 mm | 1225 mm |
| Weight | 290 g | 310 g | 450 g | 790 g | 1280 g |



Mounting

1. Mount the manometer on a wall or partition wall with two maximum Ø 5 screws.
2. Unscrew one of the two connectors and slowly pour the manometric liquid to zero point on the graduation.
3. Remount the connector without overtightening.
4. 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 (-)**