

## DATA SHEET



# INCLINED LIQUID COLUMN MANOMETERS



## TX series

### Pressure / Depression

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



Scale with centered zero



Possibility for measuring positive and negative pressures



High measurement sensitivity



Very low pressure ranges



Zero adjusting by moving the slide strip



Integrated spirit level for adjusting horizontality

### Measuring range

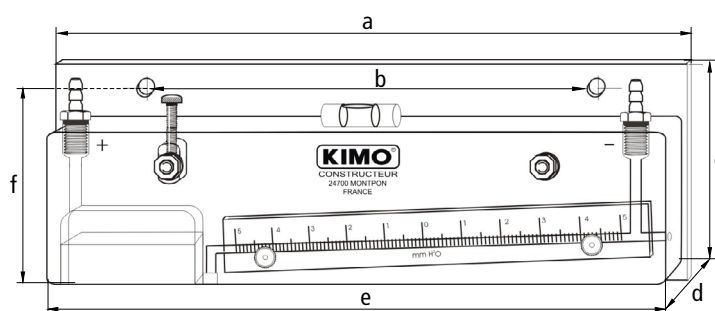
| Reference | Measuring range     |             | Sensitivity scale<br>For 1 mm H <sub>2</sub> O or 10 Pa | Resolution                      |
|-----------|---------------------|-------------|---------------------------------------------------------|---------------------------------|
|           | mm H <sub>2</sub> O | Pascal      |                                                         |                                 |
| TX 25     | 2.5 - 0 - 2.5       | 25 - 0 - 25 | 20 mm                                                   | 0.1 mm H <sub>2</sub> O or 1 Pa |
| TX 50     | 5 - 0 - 5           | 50 - 0 - 50 | 15 mm                                                   | 0.1 mm H <sub>2</sub> O or 1 Pa |
| TX 75     | 7.5 - 0 - 7.5       | 75 - 0 - 75 | 10 mm                                                   | 0.1 mm H <sub>2</sub> O 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 15 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 20 mm. Fixed via milled, nickel-plated brass screw                            |
| Positioning              | 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 | TX 25  | TX 50  | TX 75  |
|-----------|--------|--------|--------|
| 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 the manometer on a wall or a vertical partition wall with two maximum Ø 5 x 25 mm screws.
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:** TX manometers require no special maintenance other than simply changing the reading liquid once a year.