DATA SHEET

VERTICAL LIQUID COLUMN MANOMETERS

LU series

Pressure / Depression

The LU 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 1S (see table below).

- **"U"-shaped column for measuring consecutively positive and negative pressures**
- **Measurement by addition of values read on each column**
- **Zero adjustment by moving the slide strip**
- **For fixed use regardless of the manometric liquid used**

Measuring range

	Reference	Measuring range		Resolution
		mm H_2O	mbar	
AWS 10 LIQUID	LU 100	50 - 0 - 50	5 - 0 - 5	1 mm H_2O or 0.5 mbar
	LU 200	100 - 0 - 100	10 - 0 - 10	1 mm H_2O or 0.5 mbar
	LU 400	200 - 0 - 200	20 - 0 - 20	1 mm H_2O or 0.5 mbar
VOLT 1S LIQUID	LU 100	110 - 0 - 110	11 - 0 - 11	5 mm H_2O or 1 mbar
	LU 200	220 - 0 - 220	22 - 0 - 22	5 mm H_2O or 1 mbar
	LU 400	440 - 0 - 440	44 - 0 - 44	5 mm H_2O or 1 mbar

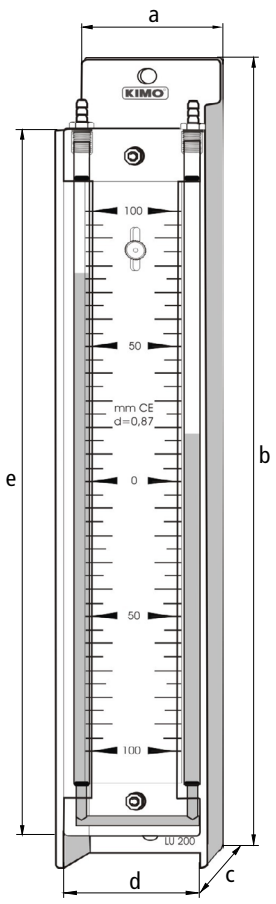
For portable use with the LU model using VOLT 1S liquid.
Supplied with a white PVC support, 2 screws and 2 rawlplugs, two 487 connectors and bottle of liquid.

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 40 x 2 mm
Zero adjustment	By moving the graduated slide strip, travel 10 mm Fixed 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 mounting	With or without white PVC support

Dimensions

Reference	LU 100	LU 200	LU 400
a	57 mm	57 mm	57 mm
b	207 mm	324 mm	558 mm
c	25 mm	25 mm	25 mm
d	50 mm	50 mm	50 mm
e	169 mm	286 mm	520 mm
Distance between tubes	193 mm	310 mm	544 mm
Weight	260 g	400 g	730 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 (-)**