

## GF series VERTICAL LIQUID COLUMN MANOMETERS

Pression / Dépression



### KEY POINTS

The GF range of vertical liquid column manometers, developed and manufactured by KIMO, are mainly for checking pressures in gas networks within measurement ranges which vary according to the type of manometric liquid used : **VF 1** or **MERCURY**.  
(See table below)

- "U"-shaped column for measuring consecutively positive and negative pressures
- Measurement by addition of values read on each column
- For fixed and portable use
- Zero adjustment by moving the slide strip
- Possibility of resisting static pressures over 10 bars
- Altuglas column sunk into the solid block
- Comes with bottle of liquid, 2 screws and rawplugs

### MEASURING RANGE

	Reference	Measuring range		Resolution	
		mm CE	mbar	mm CE	mbar
<b>VF1 LIQUID</b>	<b>GF 500</b>	250 – 0 – 250	25 – 0 – 25	1	0,5
	<b>GF 1000</b>	500 – 0 – 500	50 – 0 – 50		
	Reference	Measuring range		Resolution	
		mm HG	mbar	mm HG	mbar
<b>MERCURY</b>	<b>GF 68</b>	250 – 0 – 250	340 – 0 – 340	1	5
	<b>GF 134</b>	500 – 0 – 500	670 – 0 – 670		

## TECHNICAL FEATURES

Recommended range of use	From +5 to +30°C
Possible range of use	From -30 to +60°C
Maximum static pressure	14 bars
Manometer body	20 mm thick PVC
Liquid column	Tube Ø 4 X 10 mm in altuglas for mercury Tube Ø 6 X 10 mm for VF1
Graduated slide strip	Transparent altuglas. Cross-section 54 X 3 mm
Zero adjustment	By moving the graduated slide strip, travel 20 mm. Fixed via milled, nickel-plated brass screw
Manometric liquid	VF1 liquid, density 13,545 or mercury, density 1
Connection	Ø 5x8 mm semi-rigid crystal tube on Ø 6.2 Delrin ribbed connectors with M 7x100 thread.
Wall mounting	2 screws Ø 5 X 25 mm

## DIMENSIONS

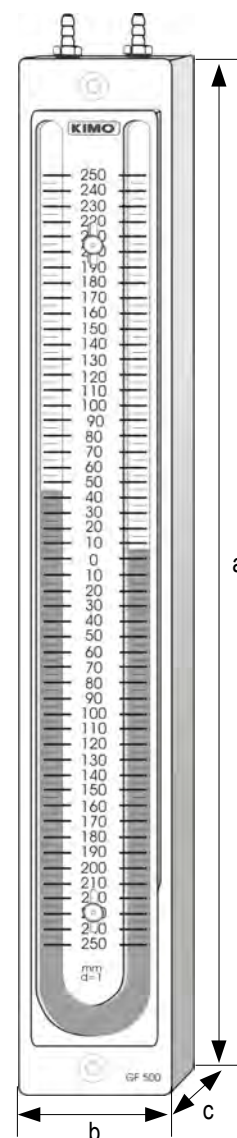
Ref.	GF 500	GF 1000	GF 68	GF 134
a	607 mm	1107 mm	607 mm	1107 mm
b	70 mm	70 mm	70 mm	70 mm
c	25 mm	25 mm	25 mm	25 mm
Distance between tubes	571 mm	1071 mm	571 mm	1071 mm
Weight	540 g	980 g	800 g	1450 g

## MOUNTING

1. **Mount** the manometer on a wall or partition wall with two maximum **Ø 5 x 25 mm** screws.
2. **Unscrew** the left-hand connector 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 5x8 mm** crystal tube to the pressure or depression source to be checked.

### Note :

For a **pressure** measurement..... Connect the crystal tube to **one of the two connectors**  
 For a **depression** measurement..... Connect the crystal tube to **one of the two connectors**.



[www.kimo.fr](http://www.kimo.fr)

Distributed by :



EXPORT DEPARTMENT  
 Tel : + 33. 1. 60. 06. 69. 25 - Fax : + 33. 1. 60. 06. 69. 29  
 e-mail : [export@kimo.fr](mailto:export@kimo.fr)

**زیست تجهیز پویش**  
 (سهامی خاص)

آدرس: تهران، خ مطهری، خ فجر ک افشار، پ ۱۶، ط ۱  
 تلفن: ۸۸۸۲۷۷۳۳ - ۸۸۸۲۶۸۷۵ - فکس: ۸۸۸۲۶۷۹۱  
 پست الکترونیکی: [info@PooyeshEnviro.ir](mailto:info@PooyeshEnviro.ir)

## 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 graduated 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

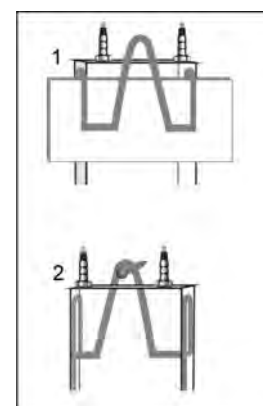
Reference	Dimensions (height. x width x thickness)	Weight (with accessories)
KM 45	306 X 50 X 20 mm	550 g

## 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 graduated 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 manometers)
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**

[www.kimo.fr](http://www.kimo.fr)



EXPORT DEPARTMENT

Tel : + 33. 1. 60. 06. 69. 25 - Fax : + 33. 1. 60. 06. 69. 29

e-mail : [export@kimo.fr](mailto:export@kimo.fr)

Distributed by :

**زیست تمهیز پویش**  
(سهامی خاص)

آدرس: تهران، خ مطهری، خ فجر، ک افشار، پ ۱۶، ط ۱  
تلفن: ۸۸۸۲۷۲۲۳ - ۸۸۸۴۶۸۷۵ - فکس: ۸۸۸۴۶۷۹۱  
پست الکترونیکی: [info@PooyeshEnviro.ir](mailto:info@PooyeshEnviro.ir)

## LU series VERTICAL LIQUID COLUMN MANOMETERS

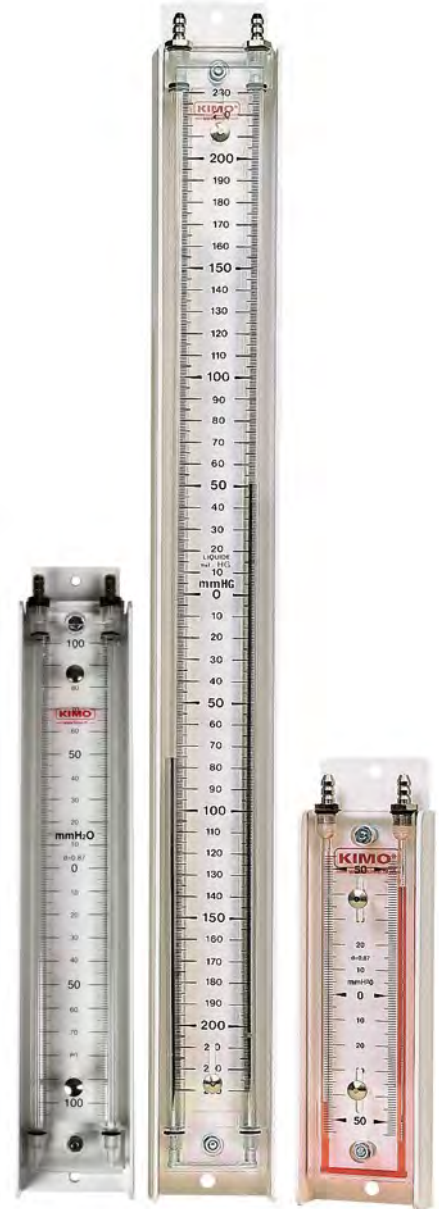
Pressure / Depression

### KEY POINTS

The LU range of vertical liquid column manometers, developed and manufactured by KIMO, 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, VOLT 1S** or **MERCURY**.

(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
- 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



### MEASURING RANGE

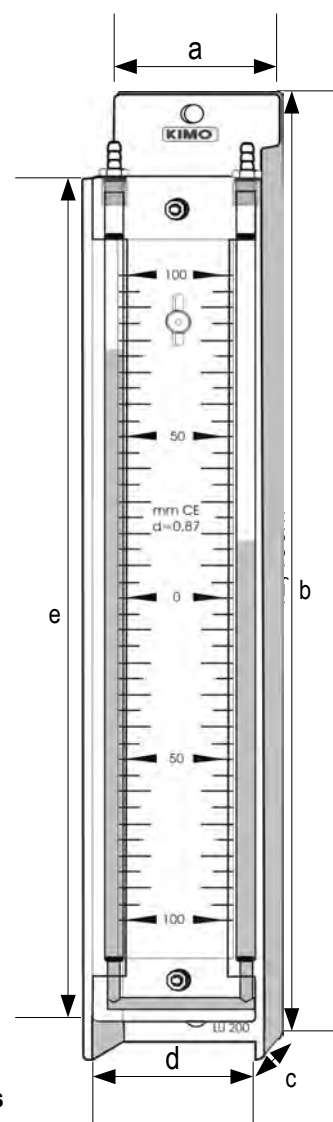
			LU 100	LU 200	LU 400
Liquide AWS 10	Measuring range	mm CE	50 – 0 – 50	100 – 0 – 100	200 – 0 – 200
		mbar	5 – 0 – 5	10 – 0 – 10	20 – 0 – 20
Résolution : 1 mm CE or 0.5 mbar					
Liquide VOLT 1S	Measuring range	mm CE	110 – 0 – 110	220 – 0 – 220	430 – 0 – 430
		mbar	11 – 0 – 11	22 – 0 – 22	43 – 0 – 43
Résolution : 5 mm CE or 1 mbar					
Mercure	Measuring range	mm HG	50 – 0 – 50	120 – 0 – 120	240 – 0 – 240
		mbar	80 – 0 – 80	160 – 0 – 160	310 – 0 – 310
Résolution : 1 mm HG or 10 mbar					

## TECHNICAL FEATURES

<b>Recommended range of use</b>	From +5 to +30°C
<b>Possible range of use</b>	From -30 to +60°C
<b>Maximum static pressure</b>	6 bars
<b>Manometer body</b>	Transparent Altuglas of 15 mm thick
<b>Liquid column</b>	Ø 4 mm tube in extruded Altuglas.
<b>Graduated slide strip</b>	Altuglas transparent. Section 40 X 2 mm
<b>Zero adjustment</b>	By moving the graduated slide strip, travel 10 mm. Fixed via milled, nickel-plated brass screw
<b>Manometric liquid</b>	AWS 10 liquid, density 0.86, VOLT 1S liquid, density 1.86 or mercury, density 13.545
<b>Connection</b>	Ø 5x8 mm semi-rigid crystal tube on Ø 6.2 nickel-plated brass ribbed connectors (for manometers using AWS 10 or VOLT 1S liquid) or in Delrin (for mercury manometer), 1/8 gas thread
<b>Wall mounting</b>	With or without white PVC support.

## ENCOMBREMENT

REF.	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

- Mount** the manometer on a wall or partition wall with two maximum **Ø 5 screws**.
- Unscrew** the left-hand connector and **slowly pour the manometric liquid** to zero point on the graduation
- Remount** the connector without overtightening.
- Connect** the manometer with the **Ø 5x8 mm** crystal tube to the pressure or depression source to be checked.

## REMARQUES :

For a **pressure** measurement.....Connect the crystal tube to **one of the two connectors**  
 For a **depression** measurement.....Connect the crystal tube to **one of the two connectors**.  
 For a **differential pressure** measurement.....Connect **both tubes to both connectors**

[www.kimo.fr](http://www.kimo.fr)

Distributed by :



EXPORT DEPARTMENT

Tel : + 33. 1. 60. 06. 69. 25 - Fax : + 33. 1. 60. 06. 69. 29

e-mail : [export@kimo.fr](mailto:export@kimo.fr)

زیست تجهیز پویش

(شاهمی غاص)

آدرس: تهران، خ مطهری، خ فجر، ک افشار، پ ۱۶، ط ۱

تلفن: ۸۸۲۷۷۲۳ - ۸۸۲۶۸۷۵ - فکس: ۸۸۲۶۷۹۱

پست الکترونیکی: [info@PooyeshEnviro.ir](mailto:info@PooyeshEnviro.ir)



## TJ series VERTICAL LIQUID COLUMN MANOMETERS

Pressure / Depression

### KEY POINTS

The TJ range of vertical liquid column manometers, developed and manufactured by KIMO, 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**, **VOLT 1S** or **MERCURY**.

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



### MEASURING RANGE

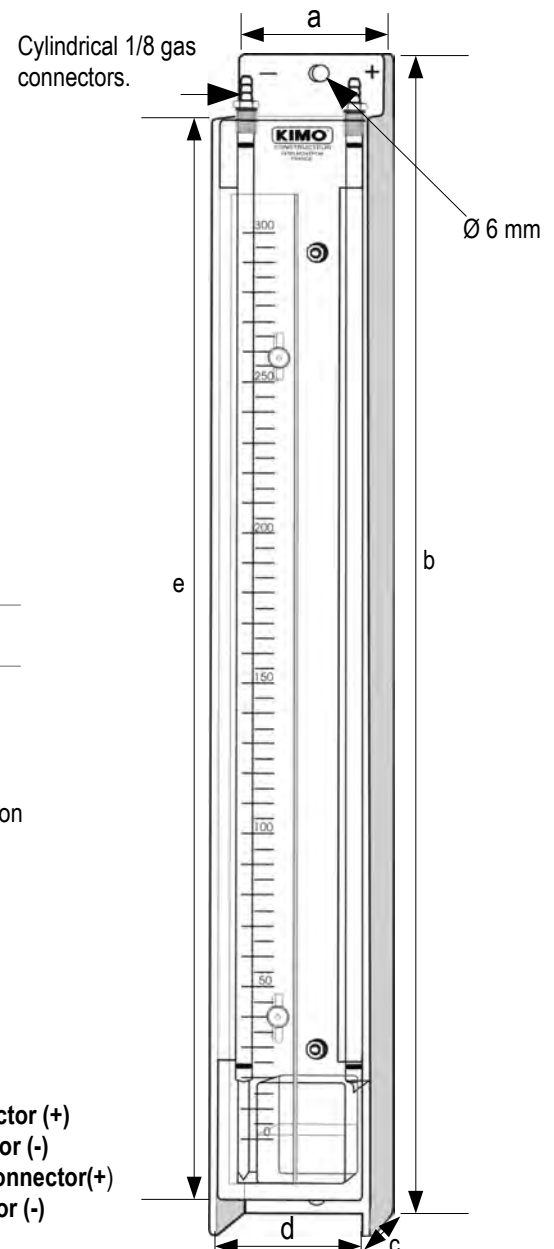
			TJ 100	TJ 150	TJ 300	TJ 600	TJ 1000
AWS 10 liquid	Measuring range	mm CE	0 – 100	0 – 150	0 – 300	0 – 600	0 – 1000
		mbar	0 – 10	0 – 15	0 – 30	0 – 60	0 – 100
		Resolution : 1 mm CE or 0.5 mbar					
VOLT 1S liquid	Measuring range	mm CE	–	–	0 – 650	0 – 1300	0 – 2150
		mbar	–	–	0 – 65	0 – 130	0 – 215
		Resolution : 5 mm CE or 1 mbar					
Mercury	Measuring range	mm HG	–	–	0 – 350	0 – 690	0 – 1160
		mbar	–	–	0 – 470	0 – 920	0 – 1550
		Resolution : 1 mm HG or 10 mbar					

## TECHNICAL FEATURES

<b>Recommended range of use</b>	From +5 to +30°C
<b>Possible range of use</b>	From -30 to +60°C
<b>Maximum static pressure</b>	6 bars
<b>MANometer boy</b>	Transparent 15 mm thick Altuglas
<b>Liquid column</b>	Ø 4mm tube in extruded Altuglas.
<b>Graduated slide strip</b>	Transparent Altuglas. Cross-section 23 x 3 mm.
<b>Zero adjustment</b>	moving the graduated slide strip, travel 15 mm Fixed in place via milled, nickel-plated brass screw.
<b>Reservoir capacity</b>	20 ml
<b>Manometric liquid</b>	AWS 10 liquid, density 0.86 ; VOLT 1S liquid, density 1.86 or mercury, density 13.545
<b>Connection</b>	Ø 5x8 mm semi-rigid crystal tube on Ø 6.2 nickel-plated brass ribbed connectors (for manometers using AWS 10 or VOLT 1S liquid) or in Delrin (for mercury manometer), 1/8 gas thread.
<b>Wall-mounted</b>	With or without white PVC support.

## DIMENSIONS

REF.	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	52 mm	52 mm	52 mm	52 mm	52 mm
e	147 mm	205 mm	392 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 5x8 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 (-)**

[www.kimo.fr](http://www.kimo.fr)

Distributed by :



**EXPORT DEPARTMENT**  
 Tel : + 33. 1. 60. 06. 69. 25 - Fax : + 33. 1. 60. 06. 69. 29  
 e-mail : export@kimo.fr

**زیست تجهیز پویش**

(سهامی خاص)



آدرس: تهران، خ مطهری، خ فجر، ک افشار، پ ۱۶، ط ۱  
 تلفن: ۸۸۸۲۷۷۲۳ - ۸۸۸۲۶۸۷۵ - فکس: ۸۸۸۲۶۷۹۱  
 پست الکترونیکی: info@PooyeshEnviro.ir