

Manometer MP 120

DESCRIPTION OF THE DEVICE



PERFORM A MEASUREMENT

- > Turn on the device by pressing on « **On/Off/Esc** ».
The device displays its name « MP120 », then performs an autozero.
- > Connect the pressure tubes or a differential pressure element to the device (Pitot tube, Debimo blades,...).
The device displays the pressure or/and the measured velocity.

PERFORM AN AUTOZERO

- The device is on and displays the pressure and velocity measurements.*
- > Disconnect the pressure tubes.
 - > Press on « **OK** ».
*« **Autozero** » displays on the screen, the device performs an autozero, then returns to the measurement display.*

FREEZE THE MEASUREMENT

- During a measurement :*
- > Press on « **Hold/min/max** ».
*« **Hold** » appears on the screen and the measurements are frozen.*
 - > Press on « **On/Off/Esc** » to exit the hold function
The device returns to the measurement display.

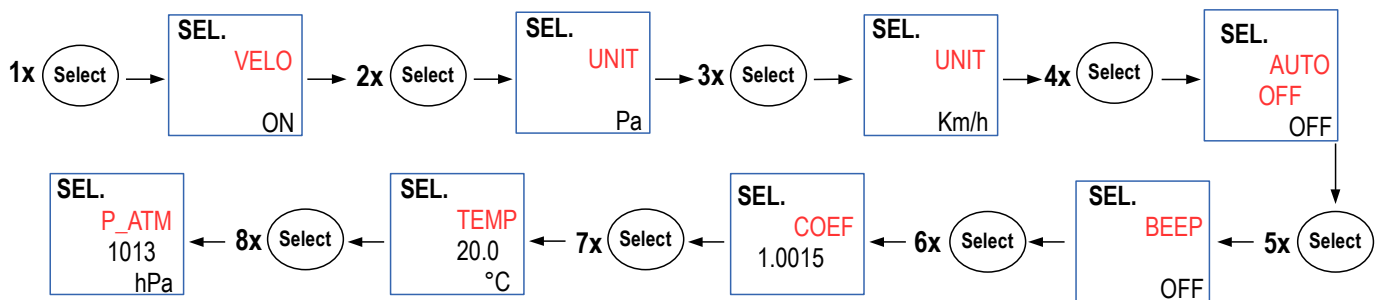
DISPLAY THE MINIMUM AND THE MAXIMUM

Once the measurement is frozen :

- Press on « **Hold/min/max** ».
The device displays the maximum value of pressure measured during the last questioning at the top of the screen and the minimum value of pressure measured since the last questioning at the bottom of the screen.
- Press again on « **Hold/min/max** ».
The device displays the maximum value of velocity measured since the last questioning at the top of the screen and the minimum value of velocity since the last questioning at the bottom of the screen.
- Press on « **On/Off/Esc** » to returns to the measurement display.

ADJUST THE DEVICE

• Device drop-down menu

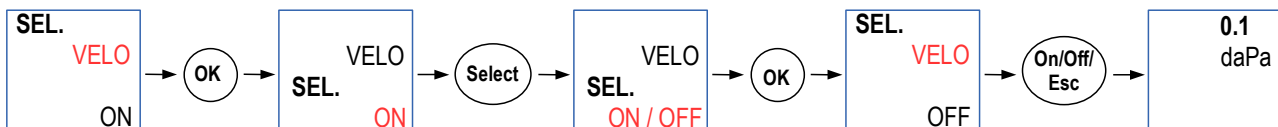


Measure and display the velocity :

It's possible to measure and display the velocity on a MP120 manometer. A differential pressure element (pitot tube, debimo blades,...) must be necessarily connected to the manometer.

The device is on and displays the pressure measurement.

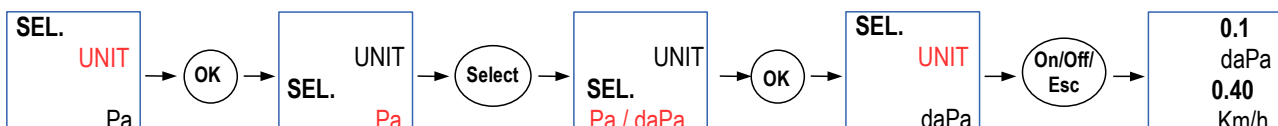
- Press on « **Select** ».
« **VELO** » blinks on screen.
- Press on « **OK** ».
« **OFF** » blinks on screen.
- Press on « **Select** » to select « **ON** » then press on « **OK** » to validate.
« **VELO** » blinks on screen.
- Press on « **On/Off/Esc** » to return to the measurements display.



Select the measuring unit in pressure :

The device is on and displays the measurement.

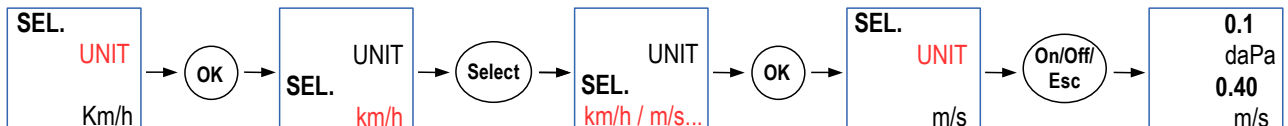
- Press on « **Select** » until « **UNIT** » appears on screen with the pressure unit indicated at the bottom of the screen.
- Press on « **OK** ».
The unit currently used blinks on screen.
- Press on « **Select** » until the required unit appears : Pa, mmh2O, inWg or daPa.
- Press on « **OK** » to validate the unit selection.
« **UNIT** » blinks on screen.
- Press on « **On/Off/Esc** » to return to the measurement display.



Select the measuring unit in velocity :

The device is on and displays the measurement.

- > Press on « **Select** » until « **UNIT** » appears on screen with the velocity unit indicated at the bottom of the screen.
- > Press on « **OK** ».
The unit currently used blinks on screen.
- > Press on « **Select** » until the required unit appears : fpm, km/h, mph or m/s.
- > Press on « **OK** » to validate the unit selection.
« **UNIT** » blinks on screen
- > Press on « **On/Off/Esc** » to return to the measurement display.



Adjust the auto shut-off :

The device is on and displays the measurement.

- > Press on « **Select** » until « **AUTO OFF** » blinks on screen.
- > Press on « **OK** ».
The time before device auto shut-off blinks at the bottom of the screen.
- > Press on « **Select** » until the required time before auto shut-off appears : 15, 30, 45, 60, 75, 90, 105, 120 minutes or off.
- > Press on « **OK** » to validate.
« **AUTO OFF** » blinks on screen.
- > Press on « **On/Off/Esc** » to return to the measurement display.



Activate or deactivate the keys beep :

The device is on and displays the measurement.

- > Press on « **Select** » until « **BEEP** » blinks on screen.
- > Press on « **OK** ».
« **OFF** » or « **ON** » blinks on screen.
- > Press on « **Select** » to activate the keys beep « **ON** » or deactivate it « **OFF** ».
- > Press on « **OK** » to validate.
« **BEEP** » blinks on screen.
- > Press on « **On/Off/Esc** » to return to the measurement display.



Adjust the coefficient :

This coefficient corresponds to the coefficient of the differential pressure element used to measure the velocity (Pitot L tube(coeff : 1.0015) or S (coeff : 0.84), Debimo blades...).

The device is on and displays the measurement.

- > Press on « **Select** » until « **COEF** » blinks on screen.
- > Press on « **OK** ».
The first digit blinks.
- > Press on « **Select** » to select the first digit value and press on « **OK** » to validate, performs the same procedure for the following digits (press on « **On/Off/Esc** », to return to the previous digit).
- > When the first digit is adjusted, press on « **OK** » to validate.
« **COEF** » blinks on screen.
- > Press on « **On/Off/Esc** » to return to the measurement.

Adjust the temperature :

To have a precise and representative measurement, the temperature of the location where are performed the measurements must be entered in the device. The temperature must be between -20 and +80°C.

The device is on and displays the measurement.

- > Press on « **Select** » until « **TEMP** » blinks on screen.
- > Press on « **OK** ».
The first digit blinks.
- > Press on « **Select** » to select the temperature sign : - for a negative temperature and 0 for a positive temperature.
- > Press on « **OK** » to validate and pass to the following digit.
- > Press on « **Select** » to select the value of this second digit and press on « **OK** » to validate, perform the same procedure for the following digit (press on « **On/Off/Esc** », to return to the previous digit).
- > When the last digit is adjusted, press on « **OK** » to validate.
« **TEMP** » blinks on screen.
- > Press on « **On/Off/Esc** » to return to the measurement display.

Adjust the atmospheric pressure :

To have a precise and representative measurement, the atmospheric pressure of the location where are performed the measurements must be entered in the device. The atmospheric pressure must be between 800 and 1200 hPa.

The device is on and displays the measurement.

- > Press on « **Select** » until « **P_ATM** » blinks on screen.
- > Press on « **OK** ».
The first digit of the atmospheric pressure blinks.
- > Press on « **Select** » to select its value.
- > Press on « **OK** » to validate and pass to the following digit, perform the same procedure for the following digits (press on « **On/Off/Esc** » to return to the previous digit).
- > When the first digit is adjusted, press on « **OK** » to validate.
« **P_ATM** » blinks on screen.
- > Press on « **On/Off/Esc** » to return to the measurement display.

ACTIVATE THE BACKLIGHT

The device is on.

- > Press on « **Backlight** » :  to activate the device backlight.
- > Press again on this key to deactivate the backlight.

CHANGE THE BATTERIES

- > Remove the front part at the back of the device.
- > Change the old batteries by AAA LR03 1.5V batteries.
- > Replace the front.



Once returned to KIMO, required waste collection will be assured in the respect of the environment in accordance to 2002/96/CE guidelines relating to WEEE