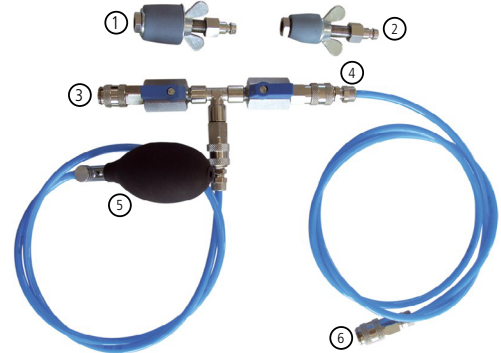# MP 130

Impermeability special manometer for gas network

Description of the device

1. OK key
2. Backlight key
3. Select key
4. On/Off/Esc key
5. Hold/min/max key

1. Male plug
2. Female plug
3. Tap with 2 valves and 3 channels
4. Female connector
5. Rubber pump
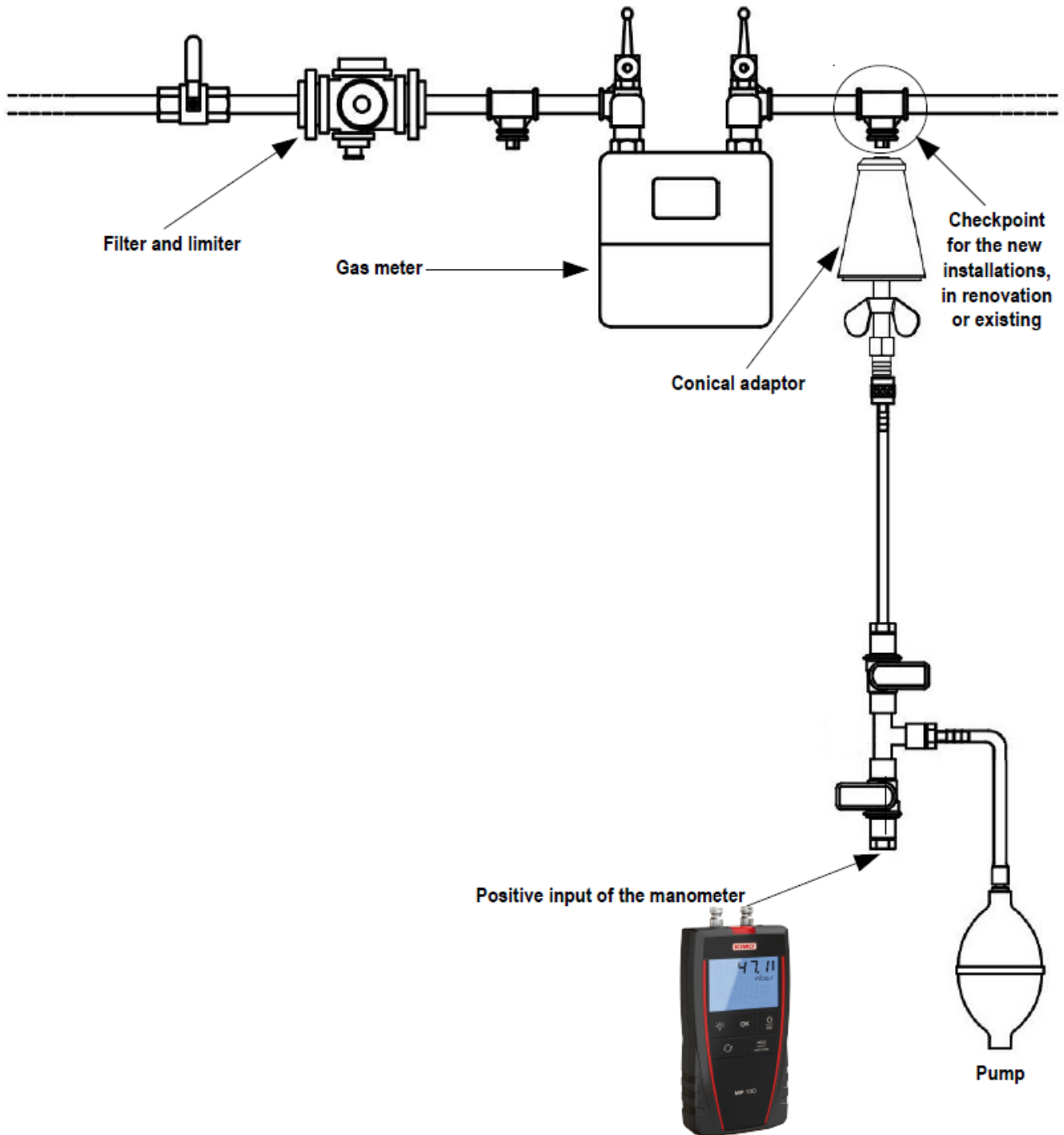6. Male connector

General features

Measuring units	kPa, inWg, mbar, mmHg, daPa
Measuring range	Piezoresistive sensor
Tolerated overpressure	700 mbar
Connector	Ø 4.6 mm threaded connectors made of nickeled brass
Display	4 lines, LCD technology. Dimensions 50 x 36 mm. 2 lines of 5 digits with 7 segments (value) 2 lines of 5 digits with 16 segments (unit)
Housing	ABS, protection IP54
Keypad	5 keys
European directives	2014/30/EU EMC; 2014/35/EU Low Voltage; 2011/65/EU RoHS II; 2012/19/EU WEEE
Power supply	4 batteries AAA LR03 1.5 V
Battery life	180 hours
Ambience	Neutral gas
Conditions of use (°C, %RH, m)	From 0 to +50 °C. In non condensing conditions. From 0 to 2000 m.
Storage temperature	From -20 to +80 °C
Auto shut-off	Adjustable from 0 to 120 min
Weight	220 g

Technical specifications

Parameter	Accuracy*	Measuring range	Resolution
Pressure	From -20 to 20 mbar: ±0.4% of reading ±0.3 mbar From -500 to -20 mbar and from 20 to 500 mbar: ±0.1% of reading ±0.6 mbar	From -500 to +500 mbar	From -20 to 20 mbar: 0.01 mbar From -500 to -20 mbar and from 20 to 500 mbar: 0.1 mbar

*All the accuracies indicated in this technical datasheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.

Prior operations for the MP 130 usage with its seal kit

- Connect the most adapted conical adaptor to the tube cross-section, to the male connector of the seal kit, and the female connector to the positive input of the manometer, as described below:
- Isolate the installation: close the counter tap and block the connectors provide at the installation.

Filter and limiter

Gas meter

Checkpoint for the new installations, in renovation or existing

Conical adaptor

Positive input of the manometer

Pump

- Connect the adaptation cone to the connector downstream of the gas meter.
- Turn on the device by pressing on "On/Off/Esc".
  The device displays its name "MP 130" then performs an autozero.
- Inject air or gas to test the installation to the correct pressure:
  - During the air supply, put pressure on the system with the little rubber pump provides with the kit; once the desired pressure is reached, close the taps.
  - During the usage of fuel or inert gas, close the taps and put pressure on system.

Perform an autozero

During a measurement:
- Disconnect the pressure tubes.
- Press on "OK".
  "AutoZ" displays on screen and the device performs an autozero.
  At the end of the autozero, the device returns to the measurement display.

Freeze the measurement

During a measurement:
- Press on "Hold/min/max" to freeze the measurement.
  "Hold" displays on screen and the measurements are frozen.
- Press on "On/Off/Esc" to exit the hold function.
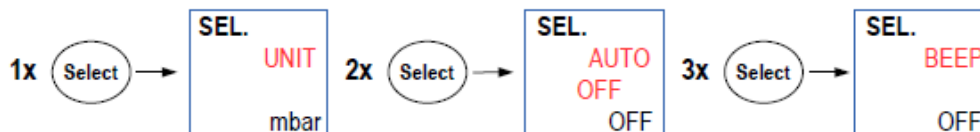 The device returns to the measurements display.

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 since the last questioning at the top of the screen and the minimum value of pressure since the last questioning at the bottom of the screen.
- Press on "On/Off/Esc" to return to the measurement display.
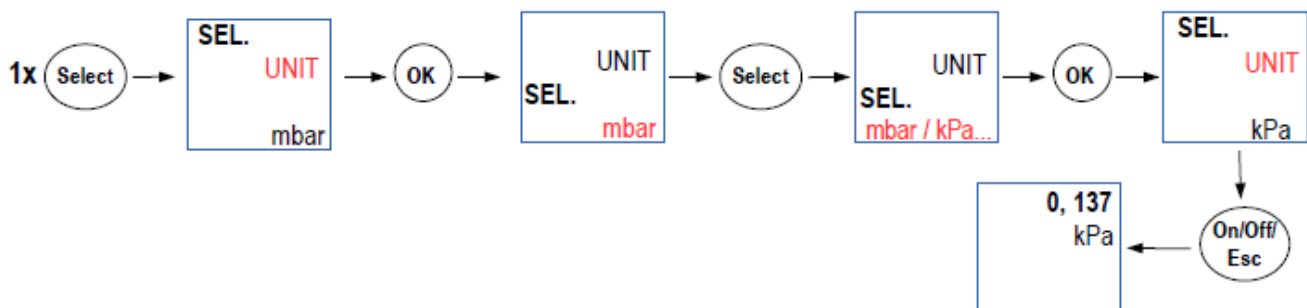
Adjust the device

Device drop-down menu

Select the measuring unit
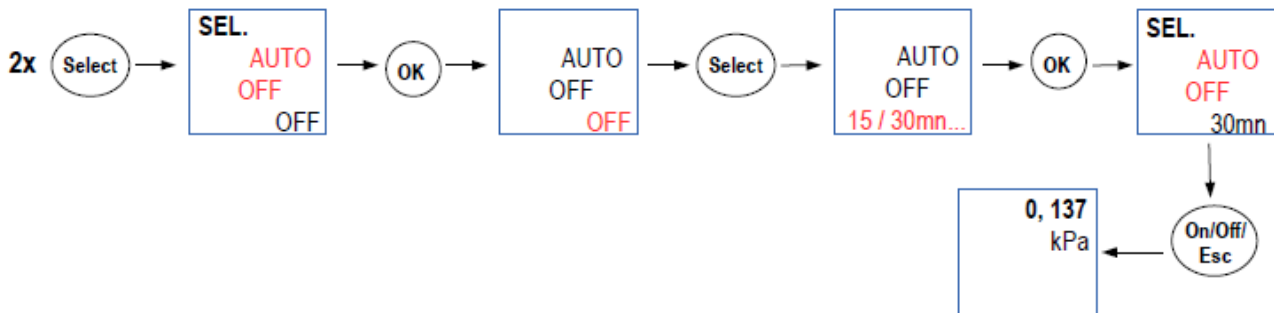The device is on and displays the measurement.
- Press on "Select".
  "UNIT" blinks on screen.
- Press on "OK".
  The unit currently used blinks on screen.
- Press on "Select" until the desired unit appears: mbar, mmHG, daPa, kPa and inWG.
- Press on "OK" to validate the unit selection.
  "UNIT" blinks on screen.
- Press on "On/Off/Esc" to return to the measurement display.

Adjust the auto shut-off
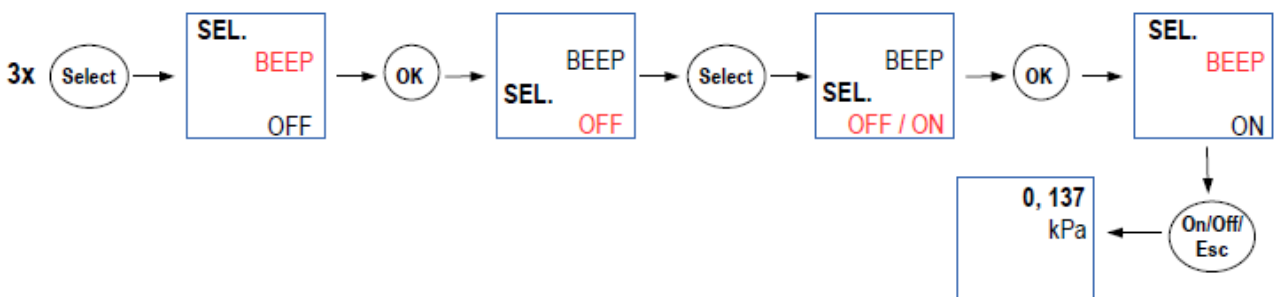
The device is on and displays the measurement.

- Press on "Select" until "AUTO OFF" blinks on screen.
- Press on "OK".
  The time before device auto shut-off blinks on screen.
- Press on "Select" to select the time before device auto shut-off: 15, 30, 45, 60, 75, 90, 105, 120 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.

Activate the backlight

The device is on and displays the measurement.

- Press on "Backlight" to activate the backlight.
- To deactivate it press again on "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.