



Electronic flowmeter

Version V3.0.2

MOP_MES_01343_EN_C - 06/04/2016

DESIGNATION	DESCRIPTION
Product Type	Electronic Flowmeter
Product	Electronic Flowmeter 2015 Version V3.0.2 DN 40 DN65 DN80 DN 100 DN150
Product Reference (concerned in this manual)	Ref. 32972, 32973, 32974, 32975, 33791 Ref. 32974 used for all visuals
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1 • Note

POK SAS reserves the right to change or modify the specifications of its products at any time to incorporate the latest technological and regulatory developments. The information contained in this document is thus subject to change without notice.

2 • General warning



Please read the information contained in this operating manual before using the equipment. The use, maintenance, or any other operation of the equipment, must be carried out exclusively by personnel informed of safety rules and trained in the use of this material.

The non-compliance of safety instructions can be dangerous and cause serious bodily harm and/or property damage. POK SAS cannot be held liable for any incidents that occur during the use if the instructions and safety (specific to the area of operation and equipment) are not respected and/or followed.

3 • Security



This symbol indicates important safety tips. Pay careful attention to prevent serious bodily harm and/or property damage.



This symbol indicates instructions that must be observed to ensure smooth operation of the device. Please always make sure to follow all the necessary precautions.

INFORMATION

This symbol indicates useful information to know and understand the correct operation of the device.

3.1 - General instructions

The device should be handled by trained professionals who have read the operating instructions, given in this manual, prior to use. The device should never be handled by people suffering from lack of sight, hearing, and illness or under the influence of alcohol or drugs, legal prescriptions or over-the-counter drugs.

Below you will find information to work safely, which must be followed when using the device.

- The device must be used in accordance with the conditions written and provided by POK in the present user manual.
- Always check, before each use, the general condition of the device is in working condition.
- Make sure the battery power is fully charged.
- Any use not adhering to the requirements of the technical instructions could lead to risks of damage to persons, property or the environment.
- Any contact with live parts (under voltage) may cause death.
- In case of damage likely to affect the housing (IP protection) of the device must be stopped.
- Transformations and changes to the device are strictly prohibited.
- Avoid electrostatic charging on plastic units and cables.
- Do not clean the unit with a damp cloth. In principle, a friction with non-conductive materials should be avoided.

- Property damage and/or bodily harm are important to remember in these cases:
 - Unauthorized removal of protective elements
 - Improper use or hazardous material situations
 - Insufficient maintenance
 - Never put anything, in particular metal, inside the meter.
 - Avoid using the meter near appliances generating strong magnetic fields
 - Avoid dust deposits on the meter
 - Adhere to the safety rules that apply to your facility / environment before using the device. It emits permanently when it is connected to a remote device.

3.2 - Use

The correct use of the device is mandatory and POK assumes compliance with the conditions of service and maintenance of the equipment.

Please respect the technical limits of the equipment.

The product should not be used if a component is damaged or missing.



The recommended pressure of use is 7 BAR. The efficiency of the equipment outside of this range is not guaranteed. The non-compliance of safety instructions and a use of the equipment beyond the recommended pressures can be dangerous and cause serious bodily harm or even death.

3.3 - Limits of use



POK guarantees the equipment to operate at the maximum working pressure of PN16. Except explicit agreement in writing, our warranty does not cover the uses exceeding this pressure.

3.4 - Spare parts

For spare parts, only use parts and accessories from POK directly.

3.5 - Safety elements

It is prohibited to make the safety elements inoperative, to modify or use in a manner contrary to their purpose.

4 • Responsibility

POK is not responsible for any damage caused by its equipment (and all accessories) resulting from improper use or by unqualified or untrained staff. Any claims from third parties are also excluded.

Whether the problem is mechanical, electrical, or the software, POK will not be held responsible for the consequences of any changes made (in particular - changes in characteristics or changes made by the user) without the written agreement of POK.

5 • Warranty

- Without prejudice to the legal guarantee which applies in any case, POK offers a one year guarantee (from the date of shipment to customer) on the whole package of equipment (the device, battery charger and accessories) with the exception of worn parts, against all defects in design, construction, manufacturing and against any abnormal wear, provided, however, to have used the hardware in accordance with the present technical instructions.
- If damage occurs while attempting to troubleshoot, modify or change parts and has not been authorized by POK without its prior written consent, the guarantee will not be upheld.
- The POK guarantee excludes all damage caused by following:
 - Misuse or non-compliance in accordance with standard practice
 - A wiring error
 - Negligence
 - Lack of maintenance
 - Mishandling
 - Improper storage
 - Use in polluted areas (chemical, electrochemical, aggressive vapors, etc.)
- Maintenance and repair of POK products can only be completed by a specialized qualified and trained professional according to POK.
- POK cannot in any case bare the consequences of direct or indirect loss suffered by the customer in case of failure of its equipment. The responsibility for POK is strictly limited to its supplies and will in no case give rise to compensation for damages.
- Repair or modification of the device during the warranty period cannot have the effect of extending that period.
- Packaging costs, packing supplies, shipping/transportation and insurance of the device to POK during a return service, during the warranty period, remains the customers responsibility.
- POK warranty includes repair (parts and labor) or replacement of defective parts after technical expertise. The place where the warranty verification is certified is at the POK factory currently located in Nogent-sur-Seine, France.
- In case of any disputes or disputes relating to a provision or to its rules, the Tribunal of Commerce in TROYES has exclusive jurisdiction, even in cases of appeal or pluralities of the defendants.

6 • Handling / transport / storage

6.1 - General information

When unpacking the equipment after transport, check that there is no mechanical damage and/or loose parts in the interior of the package. In case of damage, the carrier must be informed immediately. In this case, do not put the equipment into use.

6.2 - Delivery information

POK equipment is delivered in a double-walled cardboard box. The package is securely closed with adhesive tape. A delivery note is included with the equipment.

6.3 - Shipment of equipment

In case of reshipping the equipment or transferring the shipment to other sites, the shipping process above shall be followed.

6.4 - Storage of equipment

When storing the device, it is recommended to keep it in its original packaging to protect from humidity, dust and kept at normal room temperature.

7 • The electronic flowmeter: the ideal choice of the market

The electronic flowmeter POK V3.0.0 is the ideal choice for measuring the flow and pressure of water in multiple applications.

Existing in various diameters (from DN40 to DN150) this flowmeter can measure flow rates from 20 Lpm to 10,000 Lpm and pressures up to 16 BAR.

Featuring advanced electronic technology; the meter has specific functions such as:

- **Battery Saver:** display can be turned off without interrupting the measurement
- **Integrated high-capacity battery life:** Over 12 hours of continuous use
- **Battery Charger with slow charge:** to extend the life span of the battery
- **Recharge the battery using a standard AC outlet**
- **Recharge the battery using a cigarette lighter (12V/24V):** Optional
- **RS485 Output:** transfer measurements to a remote computer using a wired connection (up to 500 meters distance)
- **Connect via Bluetooth®*** to a computer, tablet or mobile phone to display remote measurements
- **ON / OFF button:** to avoid self-discharge of the battery during storage
- **Simple battery charge level indicator**
- **Easy and intuitive recalibration function**
- **2.8" Large display on TFT color graphic display:**
 - Display of flow rate in lpm - Liters per minute or gpm - Gallons per minute (default setting)
 - Display of flow rate in m3/h (cubic meters per hour)
 - Pressure display in BAR or PSI (default setting)
 - Displaying the cumulative volume (with the possibility of resetting)
- **User-friendly menus**
- **Flow and economic pressure measurement** for a wide range of operating conditions while ensuring a certain degree of precision
- **Stabilizing legs** for floor installation

*Bluetooth® is a registered trademark of the Bluetooth SIG consortium.

8 • Strengths

- Multiple Connections: Cable, Bluetooth
- Intuitive controls via push button
- Excellent Price / performance ratio
- Wide measuring range
- Ability to change the display language (factory setting)
- Can be recalibrated
- Robust housing
- Very little maintenance
- Built-in charger
- Asymmetrical coupling possible

9 • Options and types

Available in different sizes depending on the flow to be measured:

DIAMETER	FLOW MEASUREMENT	PRESSURE	REFERENCE
DN40	20 lpm to 1500 lpm	0 to 16 bar	32972
DN65	300 lpm to 3500 lpm	0 to 16 bar	32973
DN80	500 lpm to 5000 lpm	0 to 16 bar	32974
DN100	750 lpm to 10000 lpm	0 to 16 bar	32975
DN150	2000 lpm to 25000 lpm	0 to 16 bar	33761

Charger for cigarette lighter 12V / 24V - 1.2A (009290)



Data transfer cable, 5 m in length with RS485 / RS232 converter (009291)



10 • Measuring principle

10.1 - Flow measurement

The device uses the simple principle of measurement, using a spinning propeller on a horizontal axis. The rotation of the propeller generates pulses that are detected and measured by the electronic device. The rotational speed is proportional to the flow velocity of the fluid.

10.2 - Pressure measurement

The pressure measurement is calculated by means of a sensor using the proven ceramic cell technology. The cell signal is amplified and converted to an analog voltage used by the electronic device.

11 • Technical specifications

11.1 - Measurement system

Measuring principle	Flow Rate: Propeller Pressure: Ceramic cell
Primary functions	Measuring flow rate and water pressure

11.2 - Characteristics

MEASUREMENT RANGE	
Pressure	from 0 to 16 bar
Flow rate:	from 20 lpm to 20000 lpm • DN40 : 20 lpm to 1500 lpm • DN65 : 300 lpm to 3500 lpm • DN80 : 500 lpm to 5000 lpm • DN100 : 750 lpm to 10000 lpm • DN150 : 2000 lpm to 25000 lpm
REFERENCES	
DN40	32972
DN65	32973
DN80	32974
DN100	32975
DN150	33761
COUPLINGS	
Adaptable to all types of couplings, specify your preference when ordering (see POK catalog).	
DIMENSIONS	
See dimensional drawings § 12.1, 12.2 et 12.3	
WEIGHT	
See dimensional drawings § 12.1, 12.2 et 12.3	
MATERIAL	
Flowmeter housing	Glass filled composite material
Body	Aluminum alloy with hard anodized surface treatment
Flow sensor	Delrin (highly-crystalline polymer)
Pressure measurement	Coupling: stainless steel Membrane: Ceramic Al2O3
Stabilizing legs	Aluminum alloy with hard anodized surface treatment
Screws and nuts	Stainless steel
OPTIONS	
Charger for cigarette lighter 12V/24V - 1.2A	009290
Data transfer cable, length 20m with converter RS485 / RS232	009291

DISPLAY AND USER MODE	
Graphic display	2.8" Graphic TFT color display Size: 43.2 X 57.6 mm Pixels: 240 X 320
Control elements	Sealed push ON/OFF button with LED indicator Quick "SELECT" push button for use of the device
Wired interface	BINDER 6 pin connection for the battery charger or the data transfer cable
Interface without wires	Bluetooth Module 2.1 Scope: more than 100m in an open field Pairing Code: 1357
DISPLAY FUNCTIONS	
Multi window displays	Window 1 : - Flow rate in lpm or per gpm (factory setting) - Pressure in BAR or PSI (factory setting) Window 2 : - Flow rate m ³ /h - Pressure in BAR or PSI (factory setting) Window 3 : - Volume in m ³ Window 4 : - Calibration Mode
Changing the display	Simply push the "SELECT" button and hold for a moment (0.5 s)
Screen saver	Push the "SELECT" button and hold for more than 5 seconds
Display functions	Window 1, 2 and 3 in French (default language) Window 4 in English (default language)
POWERING ON	
Push the ON/OFF button once	
SETTING	
Display units	Adjust by 2 DIP internal switches
Maximum flow rate	Adjust by 3 DIP internal switches
CALIBRATION	
Calibration is possible by opening the housing and pushing an internal button	
CHARGER	
Type of charge	A constant current, then constant voltage
Charge time	3 hours
Input voltage	5 V (by USB jack)

BATTERY	
Type	Lithium Ion Polymer
Capacity	1800 mAh
Nominal voltage	3,7 V
Consumption	150 mA with display on and connected via Bluetooth 140 mA with display on and not connected via Bluetooth 50 mA with display off and connected via Bluetooth 40 mA with display off and not connected via Bluetooth
Battery life	>12 hours with display on and connected via Bluetooth >40 hours with display off and not connected via Bluetooth

11.3 - Measuring accuracy

REFERENCE CONDITIONS	
Products to measure	Water
Temperature	+20°C
Pressure	7 bar
Upstream waterflow section	Identical water flow direction to that of the device
MAXIMUM MEASUREMENT ERROR	
Flow measurement	+/- 1,5 %
Pressure measurement	+/- 1 %

11.4 - Conditions of use

TEMPERATURE	
Maximum operating temperature	+10°C to +60°C
Maximum battery charge temperature	0°C to °40°C
Maximum storage temperature	-20°C to +70°C
PROTECTIVE CAPACITY OF THE ELECTRICAL ENCLOSURE EN60529	
IP65	

11.5 - Connection outlets

CABLE CONNECTION (RS485)

Automatic connection detection

Frame format	<ul style="list-style-type: none"> • Connection RS485 • STX nnnnn LMP ddddd BAR pp.ppCRLF • STX : Start Of Text (02H) • nnnnn: sample number (0 to 65535) • ddddd : flow value of 5 digits (0 to 9) • pp.pp : pressure value of 4 digits (0 to 9) with a dot • CR : Carriage Return (0DH) • LF : Line Feed (0AH) <p><u>Remarques :</u></p> <ul style="list-style-type: none"> • when the flowmeter is set up in GMP, LMP is replaced by GMP • when the flowmeter is set up in PSI, BAR is replaced by PSI
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Connection speed	9600 Bauds
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BLUETOOTH® CONNECTION

Automatic connection detection

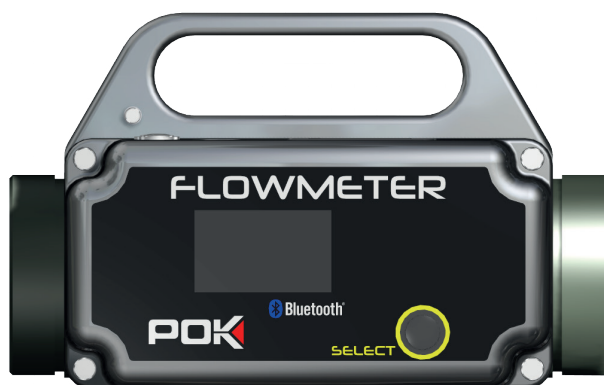
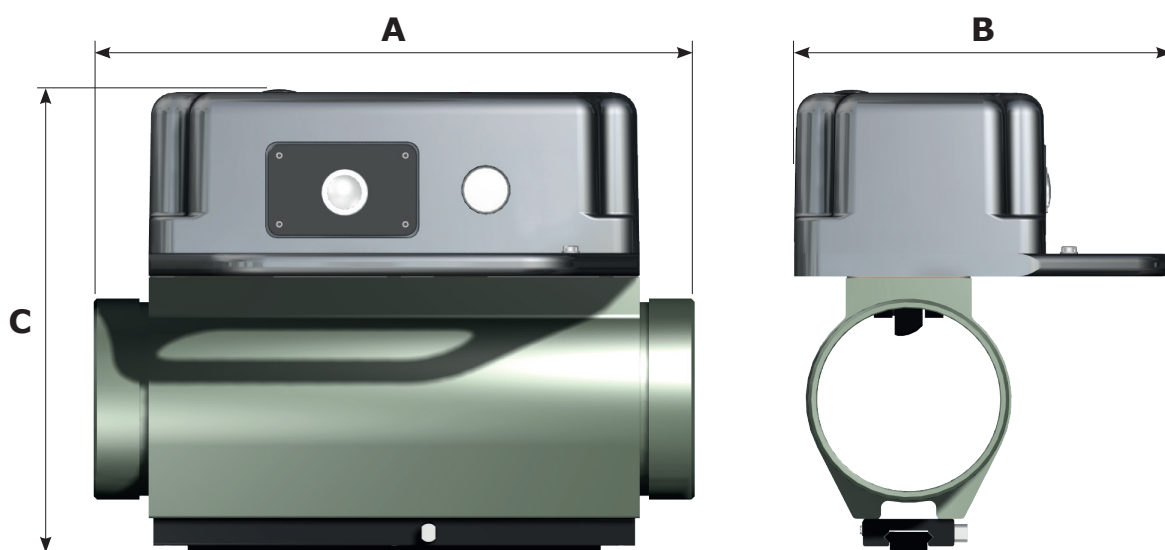
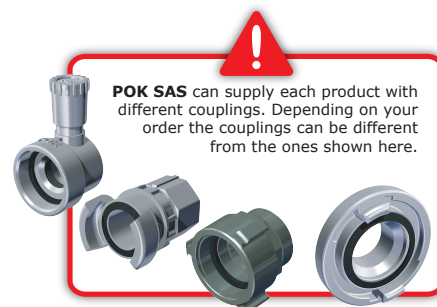
Frame format	<ul style="list-style-type: none"> • Bluetooth connection • STX nnnnn LMP ddddd BAR pp.ppCRLF • STX : Start Of Text (02H) • nnnnn: sample number (0 to 65535) • ddddd : flow value of 5 digits (0 to 9) • pp.pp : pressure value of 4 digits (0 to 9) with a dot • CR : Carriage Return (0DH) • LF : Line Feed (0AH) <p><u>Remarques :</u></p> <ul style="list-style-type: none"> • when the flowmeter is set up in GMP, LMP is replaced by GMP • when the flowmeter is set up in PSI, BAR is replaced by PSI
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Terminal name	POK V3
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Pairing Code	1357
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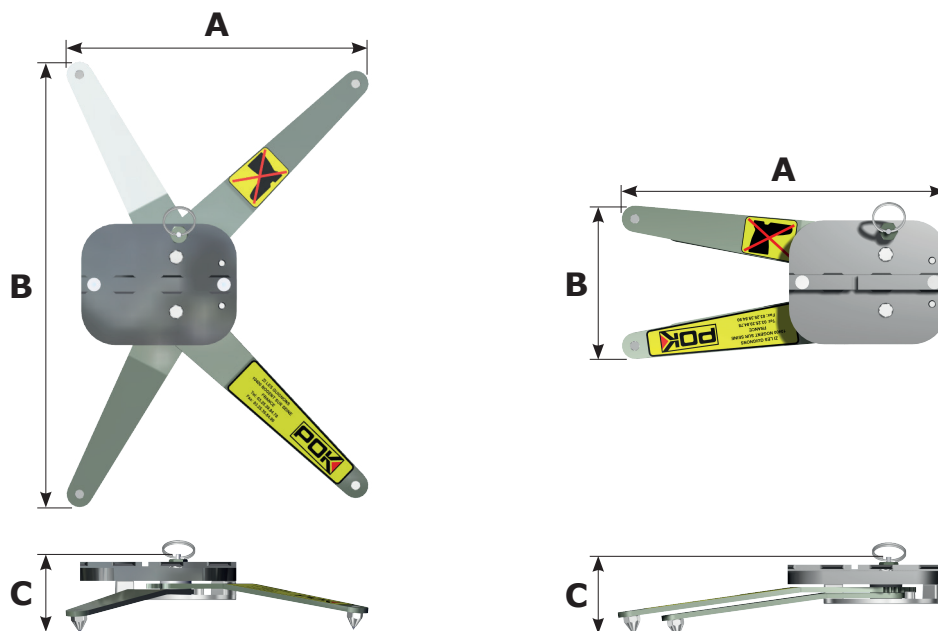
12 • Dimensions

12.1 - Flowmeter



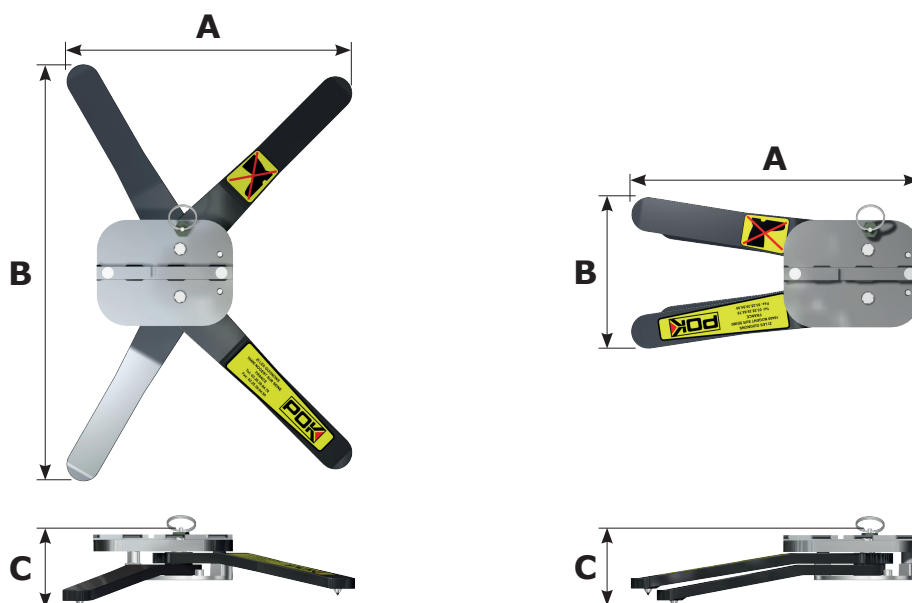
DIAMETER	A (mm)	B (mm)	C (mm)	WEIGHT (Kg)
DN40	250	166	160	2,93
DN65	255	166	184	3,37
DN80	263	166	199	3.55
DN100	268	173	220	4,07
DN150	274	199	272	5,27

12.2 - Stabilizing legs made in aluminium alloy



POSITION	A (mm)	B (mm)	C (mm)	WEIGHT (Kg)
Unfolded	349	513	91	2,63
Folded	370	173	91	2,63

12.3 - Stabilizing legs made in plastic



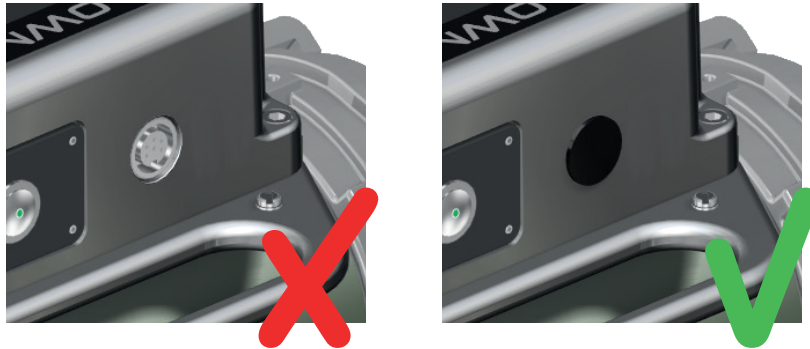
POSITION	A (mm)	B (mm)	C (mm)	WEIGHT (Kg)
Unfolded	378	550	103	2,63
Folded	380	197	103	2,63

13 • Preface

The device is intended to display the flowrates as indicated in §11.2. Outside of these temperature ranges the data is erroneous and is not guaranteed.

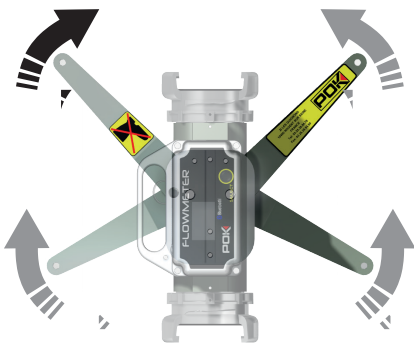
The various sensors may be damaged if an operating pressure of 16 BAR is exceeded.

Always check the presence of the protective cap on the device, when no cable is connected.

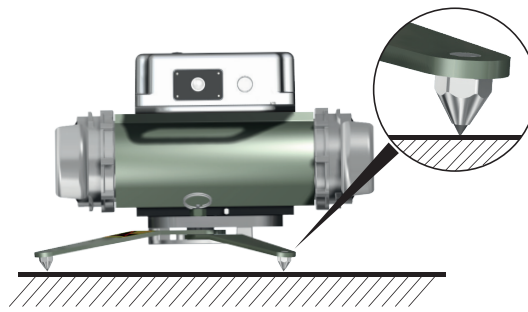


14 • Fold/Unfold

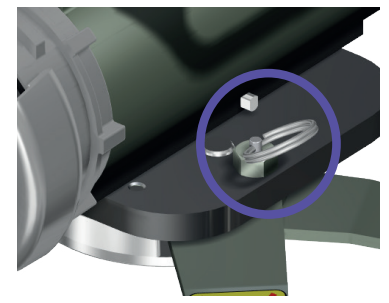
- 1 - Unfold the stabilizing legs by pulling on them (Rep A)
- 2 - Check if they are correctly attached to the flowmeter
- 3 - Ensure all of the tips on the stabilizing legs are in contact with the ground and that the flowmeter can not slide or move (Rep B)
- 4 - After use, pull the locking ring to disengage the locking mechanism to fold (Rep C)



Rep A



Rep B



Rep C

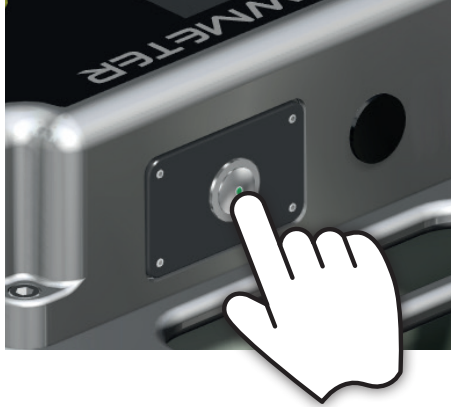


DO NOT WALK ON THE STABILIZING LEGS, OR PUT WEIGHT ON THEM, AS THIS COULD DAMAGE THE LEGS.

15 • Functions of the Flowmeter

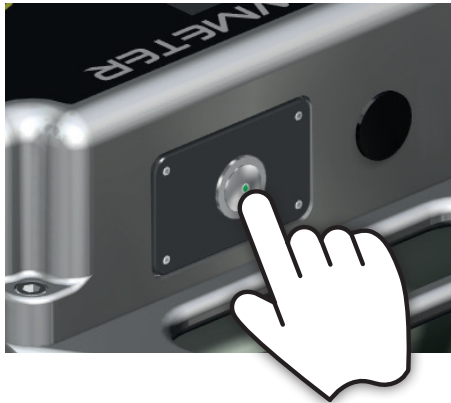
15.1 - Powering On

Powering on the device is done by pressing the ON/OFF button. An LED illuminates the center of the button to indicate the device is turned on.



15.2 - Powering Off

Powering off the device is done by pressing the ON/OFF button. The illuminating LED light turns off; indicating the power of the device is off.



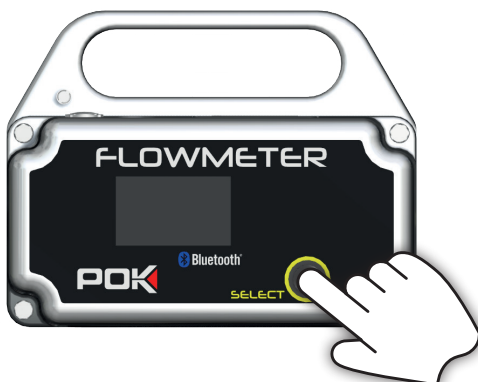
INFORMATION When the flowmeter is powered off, the volume totalizer is reset to zero



The flowmeter must be powered on to charge the battery. Once charging is complete, remember to switch off the flowmeter.

15.3 - To start use

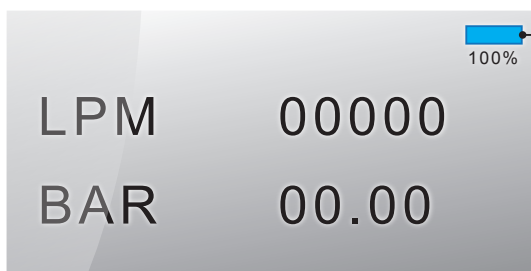
To start the flowmeter, momentarily press the "SELECT" button (0.5 seconds)



The home screen displays the POK logo and the firmware version.



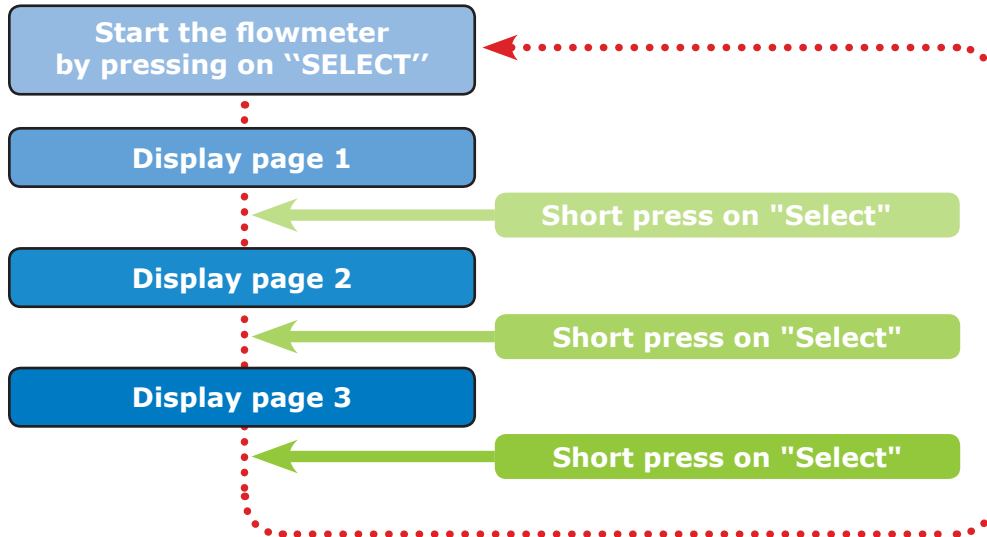
After 10 seconds, the device displays page 1, on which the flow measurement is displayed in lpm format (or gpm depending on the setting) and pressure BAR format (or PSI depending on the setting).



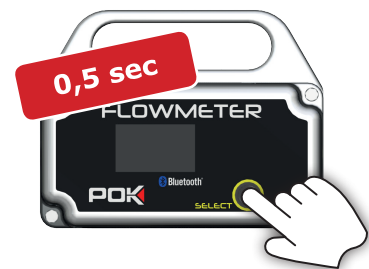
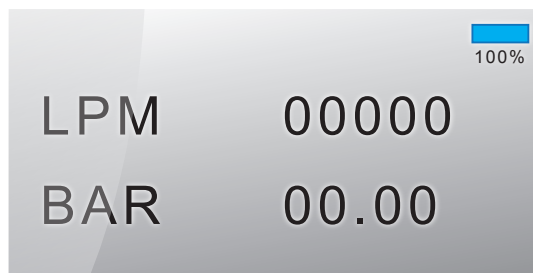
The screen also displays the percentage of battery life (from 0 to 100 %) associated with a symbol.

15.4 - Changing the display

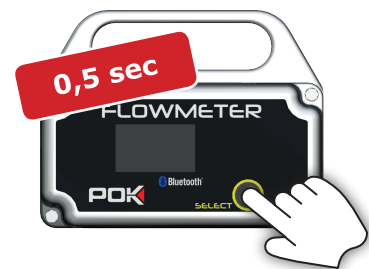
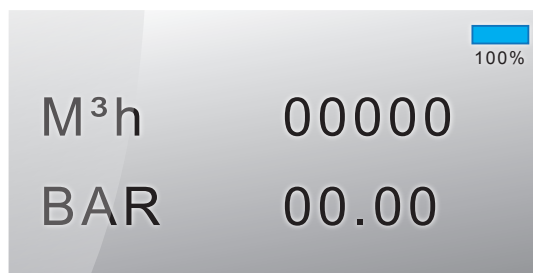
When the device is powered on, it has multiple display windows. The transition from one window to another is done by momentarily pressing the "SELECT" button (0.5 seconds):



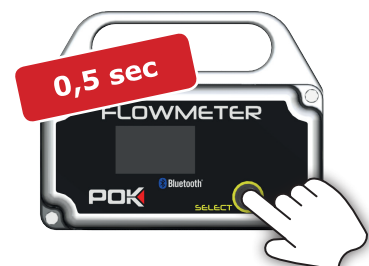
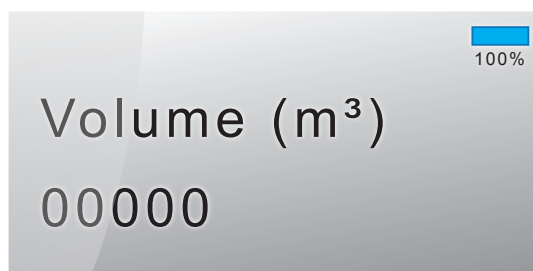
Display page 1



Display page 2



Display page 3



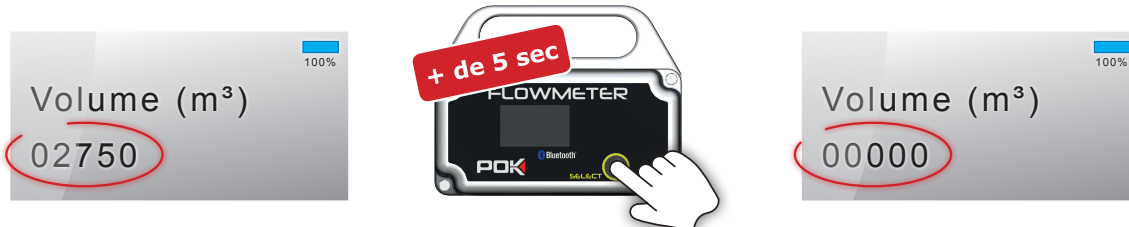
15.5 - Resetting the sample number to zero

Reset the sample number of the Bluetooth® or RS485 connection by pushing the "SELECT" button (0.5 seconds).



15.6 - Resetting the volume to zero

Page three measures the volume of total water. Reset the volume by pushing the "SELECT" button for five seconds.



INFORMATION Reset can only be done only when flowmeter is on display page 3

INFORMATION When the flowmeter is powered off, the volume totalizator is reset to zero

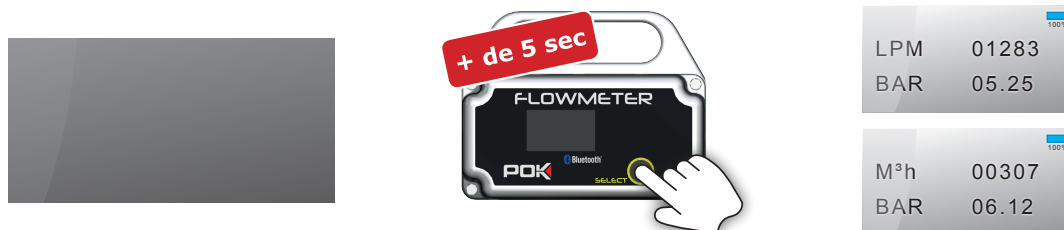
INFORMATION When the screen saver is active, the totalizator is not reset to zero

15.7 - Battery saver

To activate the battery saver, simply press the push button "SELECT" for more than 5 seconds, while on page 1 or page 2. In screen saver mode, the unit continues to operate normally; only the display is turned off.



To turn on the display from screen saver mode, press the push button "SELECT" for 5 seconds.



INFORMATION When the unit is in standby, the totalizator cannot be reset to zero.

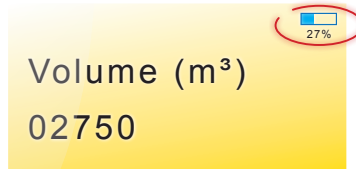
INFORMATION The screen saver mode can be enabled even if a host is connected to the device.

15.8 - Low battery

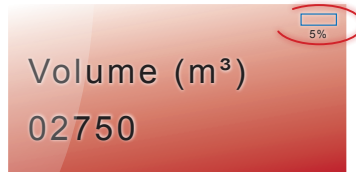
The device measures the charge level of the battery, in real time, and displays it on each page in the top right corner.

The value varies between 0 and 100%.

When the charge level of the battery reaches 30% the display screen on pages 1,2 and 3 turns yellow.




When the charge level of the battery reaches less than 5%, the display screen flashes red (on pages 1, 2 or 3).



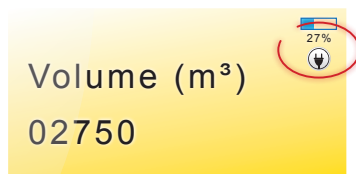
15.9 - Charging the battery

To recharge the battery, the flowmeter must be powered on by pressing the ON/OFF button and connect the charger (ac adapter or cigarette lighter) to the device.



This battery symbol "  " indicates that charging is in progress.

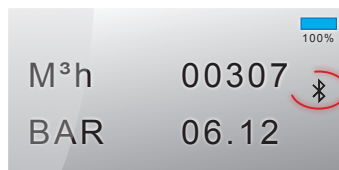
The charge level of the battery is also indicated on the page.



Once charging is complete, if you are not using the flowmeter right away, switch it off by pressing the ON/OFF button.

15.10 - Bluetooth® indicator

A Bluetooth symbol indicates if the device is connected with a Bluetooth host



This symbol "  ":

- Flashes when the device is not connected to a Bluetooth host
- Is fixed when a host is connected to the device

15.11 - Connecting to a host

The device can be connected to a remote computer either by Bluetooth connection or by wire connection.

- 15.11.1 Bluetooth Connection

To connect via a Bluetooth connection, search for the device POK V3 and establish the connection.

Bluetooth Settings: Terminal name: POK V3
Pairing Code: 1357

- 15.11.2 Wire Connection

To connect by wire connection, connect the cable (009291) between the device and the computer.

Wire Connection Settings: Speed: 9600 Bauds
Data: 8 Bits, no parity, no flow control

15.12 - Applications for a smart phone

Many applications are available from Google Play or Windows. Applications running on most of the smart phone: 8 bits, no parity, no flow control

- BTTerminal (DevFor8)



- Bluetooth Serial Terminal (NMinion)



- TerminalBT (identity)



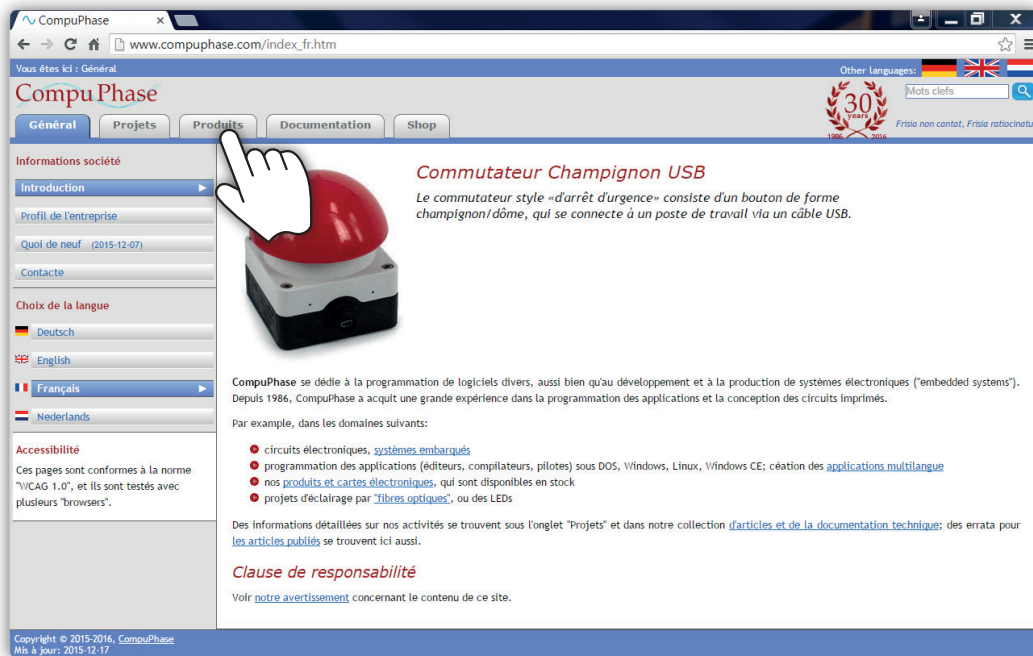
- Display in list form of the measured data on the smartphone



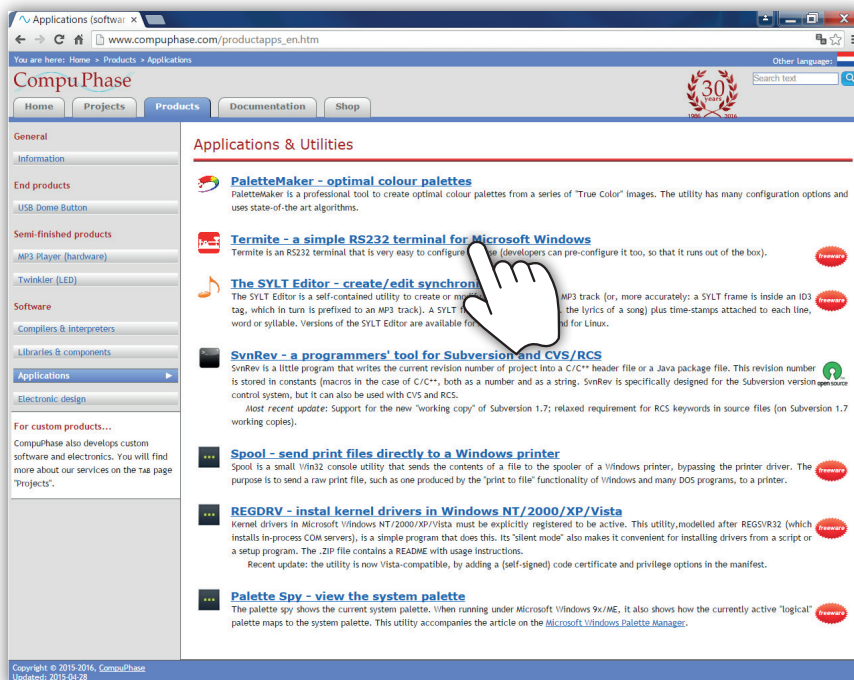
16 • Use of software Termite

16.1 - Installation of Termite

- 16.1.1 Please go to: <http://www.compuphase.com>, and in the tab "Products"



- 16.1.2 Click on "Applications" and then on "Termite – a simple RS232 terminal for Microsoft Windows"



- 16.1.3 Download "Termite version 3.2 – complete Setup"
- 16.1.4 Install "Termite version 3.2" on the computer

16.2 - Wired connection

- Turn off the flowmeter
- Connect the cable 009291 to the PC (via USB)



- Connect the other side of the cable 009291 to the flowmeter



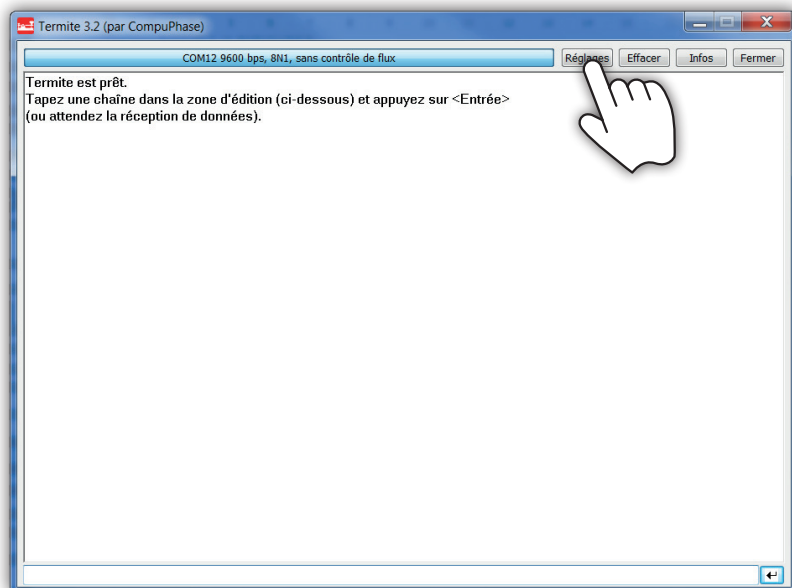
- Turn on the flowmeter

16.3 - Setup software Termite

- 16.3.1 Launch Termite



- 16.3.2 Click on "Settings"



- 16.3.3 Setup the following items then click on "OK"

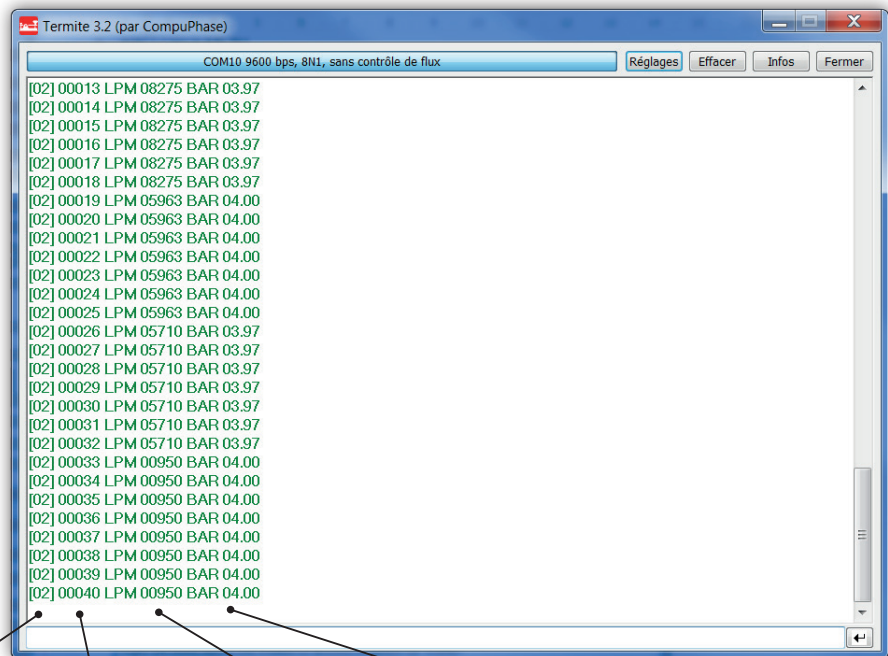
The screenshot shows the 'Paramètres du port série & réglages du programme' dialog box. Callouts point to the following settings:

- Port:** COM12
- Vitesse (b/s):** 9600
- Bits données:** 8
- Bits stop:** 1
- Parité:** aucune
- Ctrl de flux:** aucune
- Redirection:** aucune
- Langue de l'interface:** Français (fr)

Other visible settings include: Trame d'émission (Suffixe: CR-LF, Echo local checked), Trame de réception (Polling: 100 ms, Police: Espacement fi), Options (Fermer par <Echap>, Saisie semi-auto, Keep history checked), and Plug-ins (Auto Reply, Function Keys, Hex View, Highlight).

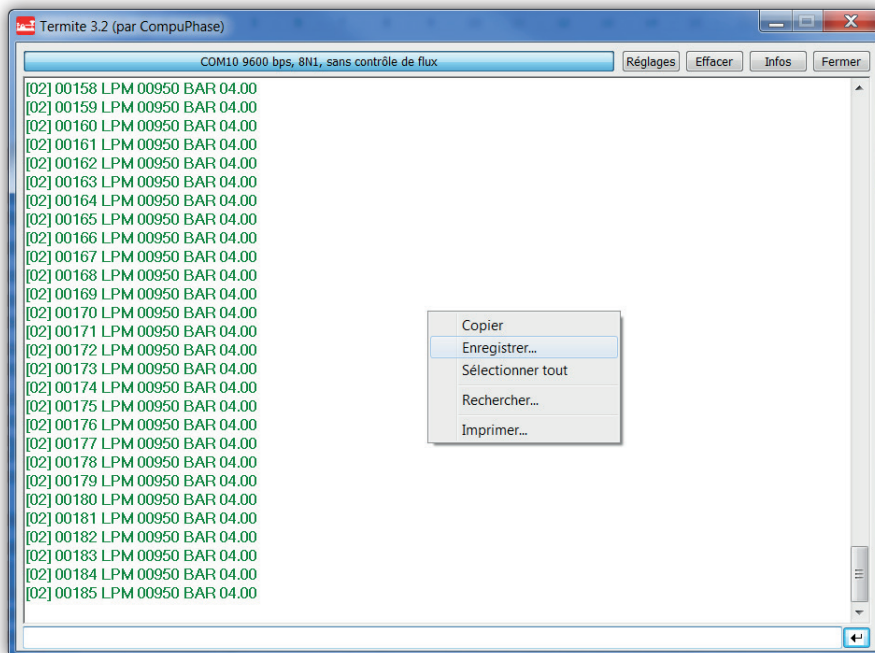
16.4 - Read and save data

- 16.4.1 Datas collected by the flowmeter are displayed on Termite as below

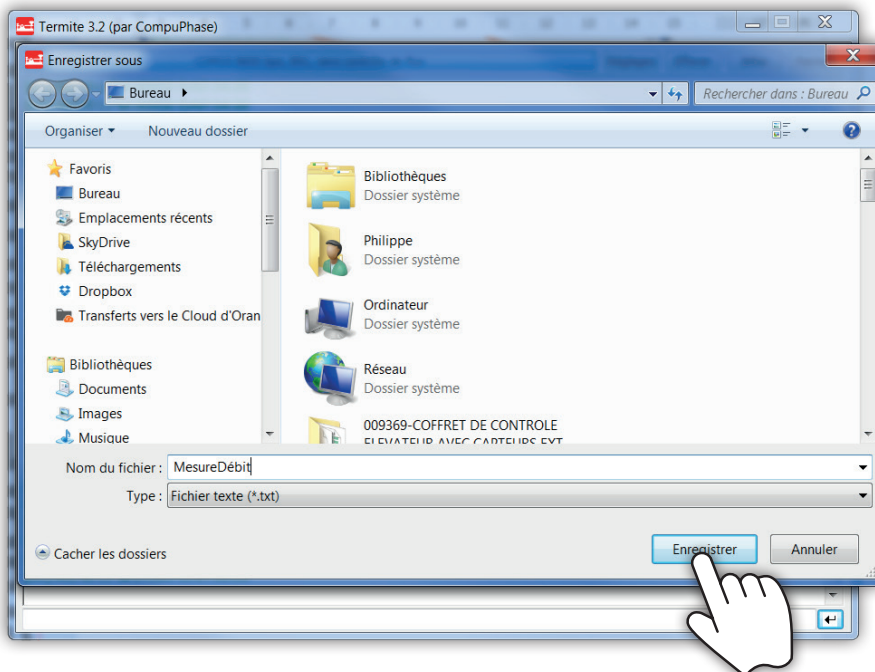


STX : Start of text Sample's number Flow rate (l/min) Pressure (bar)

- 16.4.2 To save the file, right-click and then select "save..."



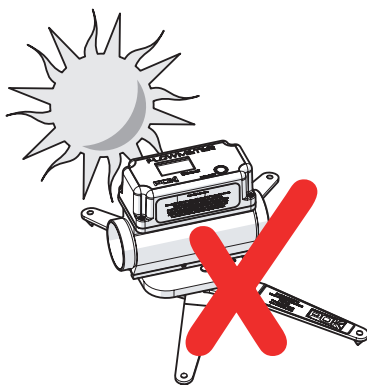
- 16.4.3 Then save the file in .txt format



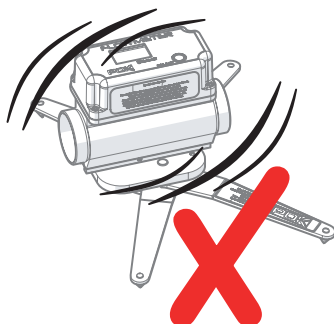
17 • Specifications for installation

Take the following precautions to ensure a proper set up:

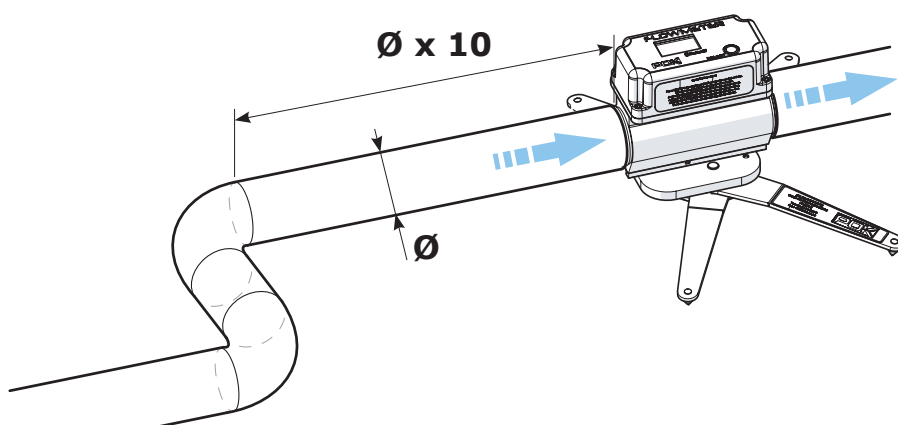
- Provide enough space on the sides of the device (with stabilizing legs extended)
- Protect the unit against prolonged exposure to direct sunlight and install protection if necessary



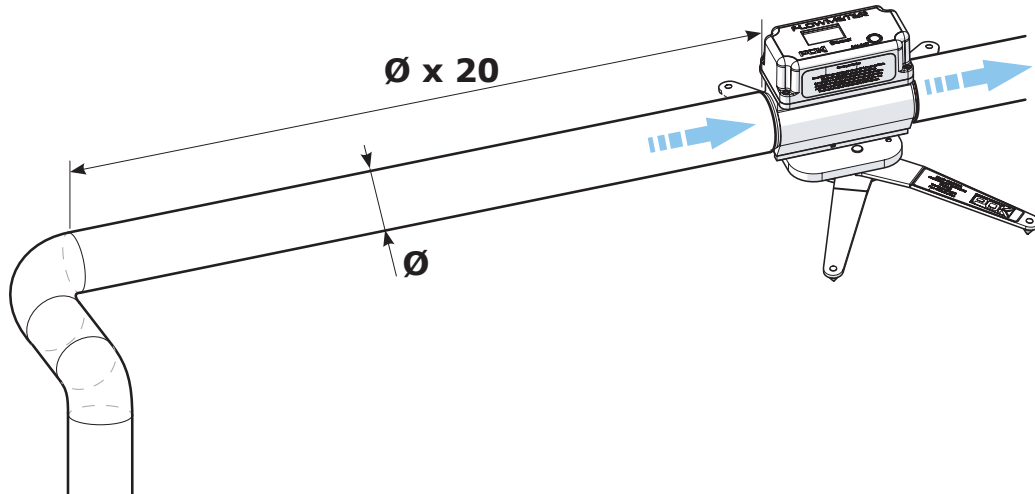
- Do not submit the device to intense vibration



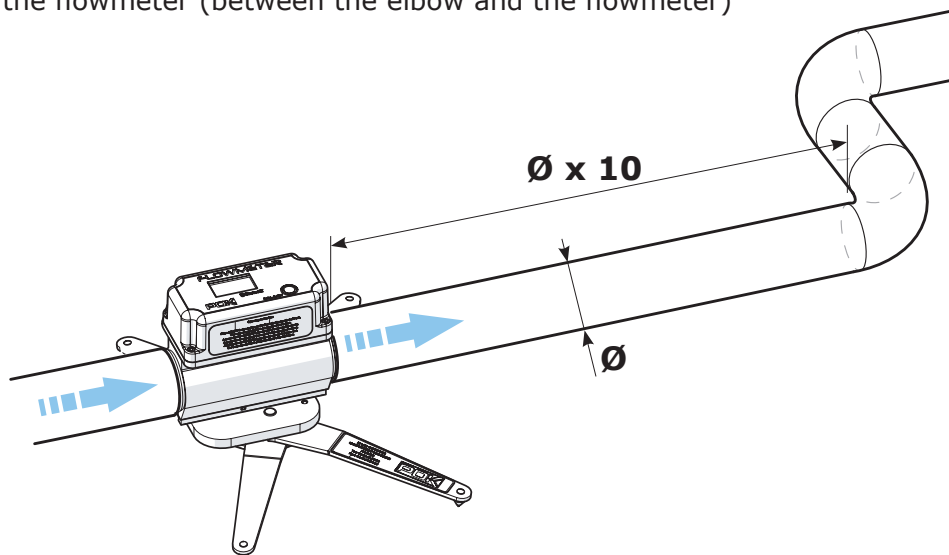
- With **an elbow of 2 dimensions upstream** of the flowmeter, insert a section of straight line **greater than 10 times the diameter** of the flowmeter (between the elbow and the flowmeter)



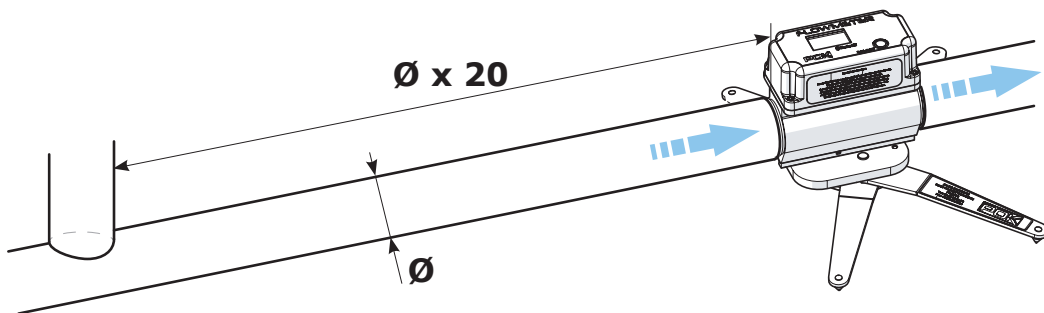
- With an **elbow of 3 dimensions upstream** of the flowmeter, insert a section of straight line **greater than 20 times the diameter** of the flowmeter (between the elbow and the flowmeter)



- With an **elbow downstream** of the flowmeter, insert a section of straight line **greater than 10 times the diameter** of the flowmeter (between the elbow and the flowmeter)



- With a **T section upstream** of the flowmeter, insert a section of straight line **greater than 20 times the diameter** of the flowmeter, between the flowmeter and the T section



18 • Care and maintenance of the device

18.1 - Safety instructions



For all maintenance work on the flowmeter, make sure the water supply is cut off.

18.2 - General preventive maintenance

POK devices require little maintenance if you follow the instructions in this technical manual.

However POK recommends performing the following preventive steps:

- Cleaning the unit with a soft cloth soaked in white spirit or soapy water (do not use a chemical solvent)
- Drain, if necessary, as water could stagnate in the device (when working outdoors)
- Check the apparent good working condition of the device

