Flowmeter 2012

Reference : 29342, 39383, 29390, 29396, 30287

- Presentation
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- Exploded view
- Bill of materials
- Stickers
- Warning
- User manual
- Maintenance

Would you please read this note before using the equipment

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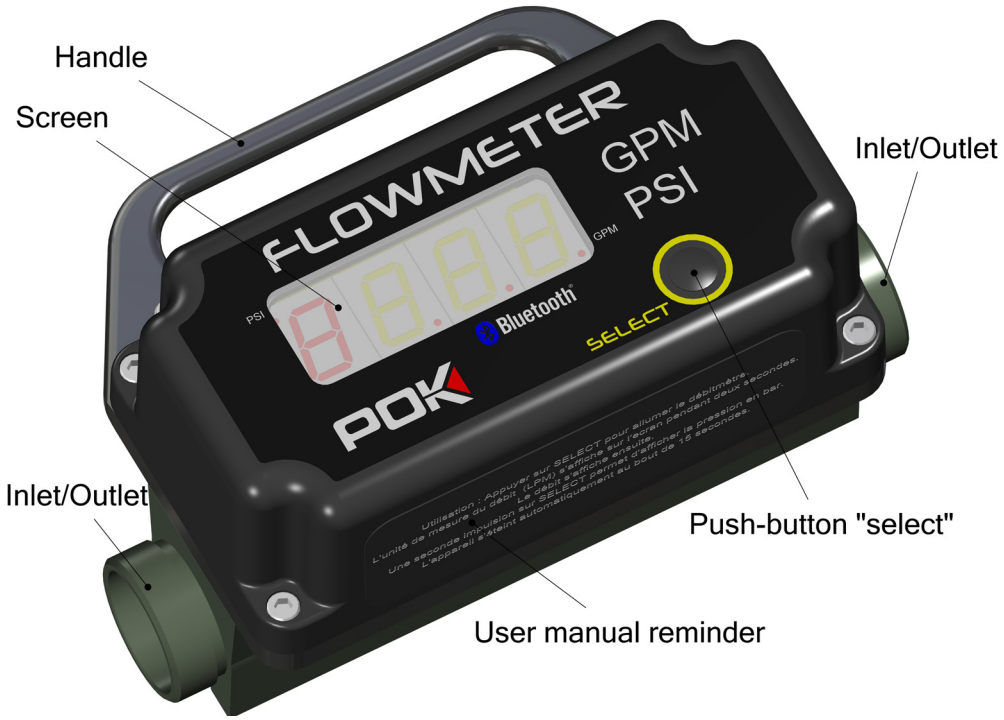
Presentation



Characteristics	Details
Construction	• Body in aluminium alloy • Case in grivory charge with glass
Maximum pressure of use	16 bar / 230 PSI
Working temperature	-10°C to 70°C (14°F to 158°F)
Waterproofness	IP65
Working flow rates limits	• **DN 40 (1.5") :** 100 l/min to 1000 l/min (26GPM to 260 GPM) • **DN 65 (2.5") :** 300 l/min to 2500 l/min (80 GPM to 660 GPM) • **DN 80 (3") :** 500 l/min to 3000 l/min (130 GPM to 800 GPM) • **DN 100 (4") :** 1000 l/min to 5000 l/min (260GPM to 1350 GPM)
Accuracy	About 3% (if use within the working flow rate limits)
Flow rate results shown in	GPM or l/min (parameter defined in factory
Pressure results shown in	PSI or bar (parameter defined in factory)
Power supply	9V Battery (6LR61)
Bluetooth	Connection kit sold separately
USB	5m USB Cable sold separately
Software	Software for PC (Windows XP, Vista, Seven only) sold only with the USB or Bluetooth® kit.
Bluetooth version	2.0

Diameter	DN40 (1.5")	DN65 (2.5")	DN80(3")	DN100 (4")
Reference	29342	29383	29390	29396

Note : references without coupling, any type available, has to be precised when the order is placed.

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Option

Example with a DN65 flowmeter

Ref : 30287

Construction :

Stabilizing legs in technical plastic
Holding system in aluminium
Axis and fastenings in stainless steel

Security : Automated locking system

Note : This option is the same for any model of flowmeter (DN40/65/80/100). It can't be removed easily.

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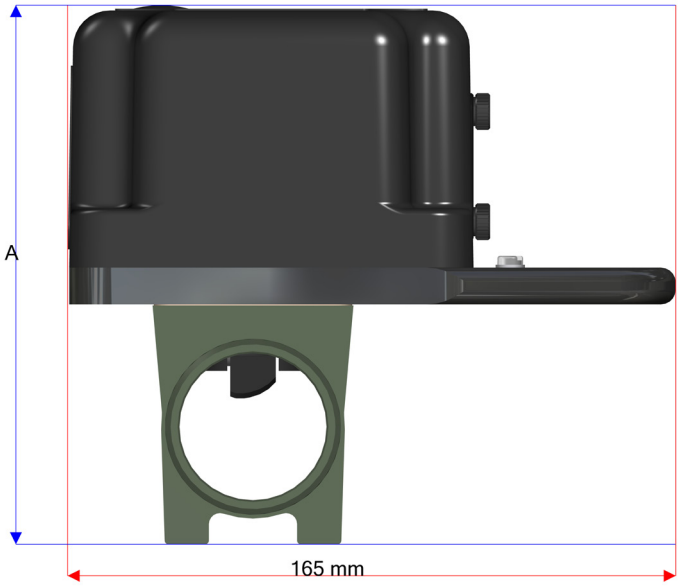
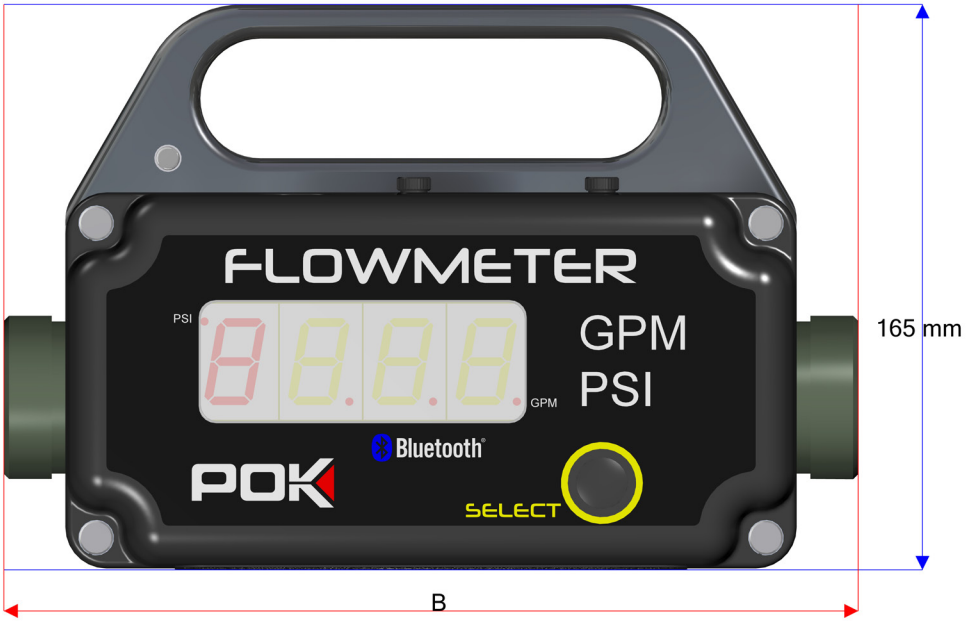
Overall dimensions
Flowmeter





Diameter	A (mm)	B (mm)	Weight (kgs)
DN40	146	250	3
DN65	169	254	3.5
DN80	185	262	3.8
DN100	205	268	4.2

Note : dimension and weight without coupling or accessories

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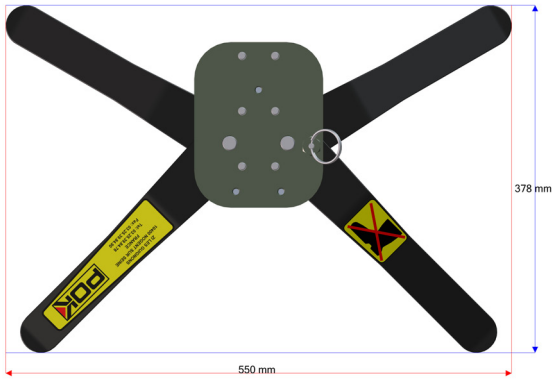
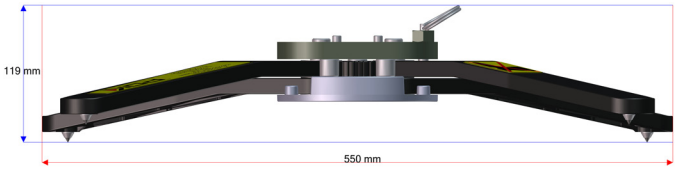
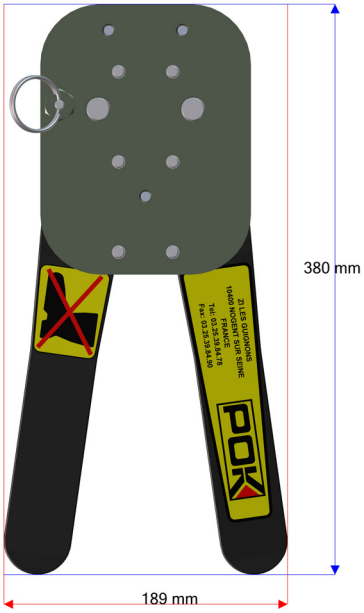
Overall dimensions
Stand

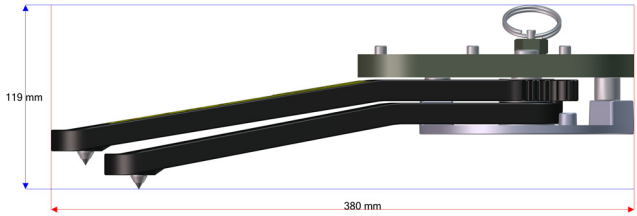
- **Unfold :**





- **Fold :**





Weights : 2.36 Kgs

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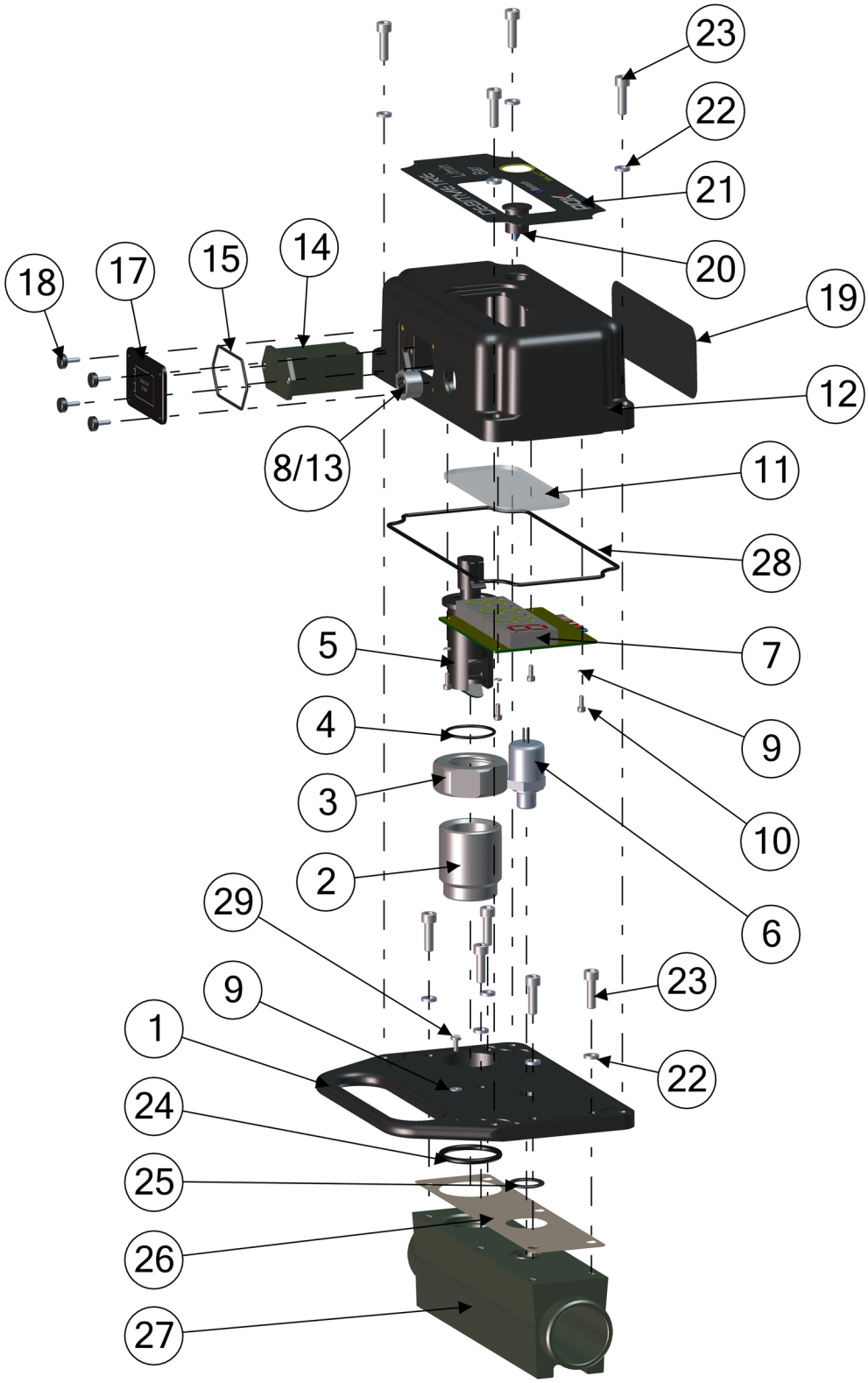
Exploded view
Flowmeter



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Bill of materials

Flowmeter

REP	QTY	DESCRIPTION	REF
1	1	Stand for electronic parts	29453
2	1	Stand for flow rate sensor	29339
3	1	Nut for flow rate sensor	229389
4	1	Seal Ø30xØ2	16833
5	1	Flow rate sensor	26624
6	1	Pressure sensor	26631
7	1	Electronic part	29449
8	1	Waterproof cap	26537
9	4	Washer W3	RGW3
10	4	Screw CHC M8-30	VTCHC 8x30
11	1	Viewer	29336
12	1	Case	29382
13	1	4 pins female binder plug	26653
14	1	Case for 9V battery	38023
15	1	Seal Ø48x2	26848
16	2	Screw FHC M3-10	FTFHC 3x10
17	1	Battery cap	29335
18	1	Screw M3-10	26634
19	1	Sticker "user manual"	
		--- French	30004
		--- English	30005
		--- German	30006
20	1	Push-buton	26651
21	1	Sticker "case"	
		--- French	29497
		--- English	29498
		--- German	30007
22	4	Washer W6	RGW6
23	4	Screw CHC M6-20	VTCHC 6x20
24	1	Seal R26	8226
25	1	Seal R13	8213
26	1	Cut seal ep.03	29901
27	1	Stand	
		--- DN40	29347
		--- DN65	29388
		--- DN80	29395
		--- DN100	29401
28	1	Seal Ø175x2,5	6245
29	1	Screw TBHC M3x8	VTBHC 3x8
-	2	Plug Mollex Male 2c	38043
-	2	Plug Mollex female 2c	38042
-	1	Cable for flow rate sensor	26625

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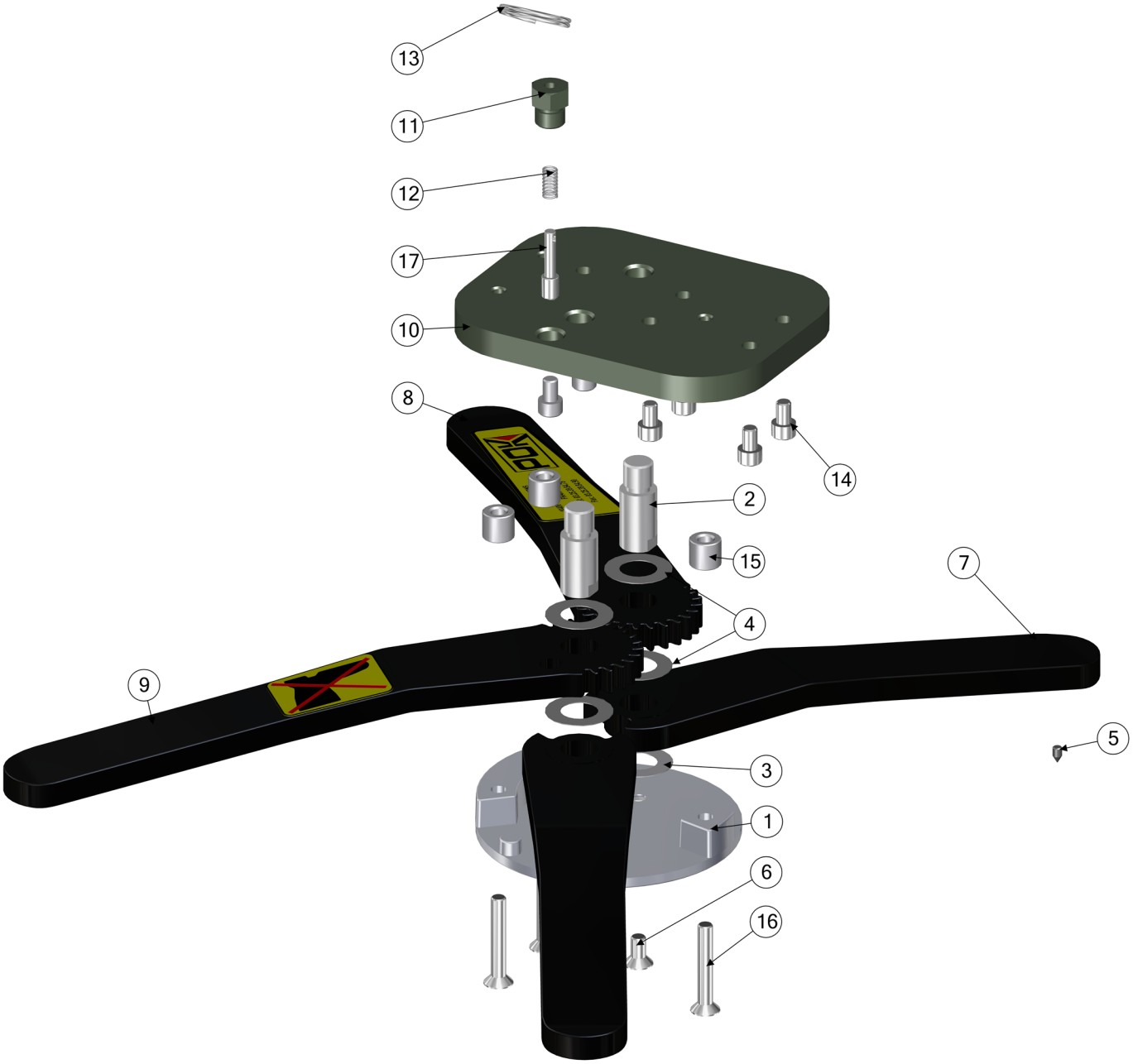
Exploded view

Stand



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Bill of materials

Stand

REP	QTY	DESCRIPTION	REF
1	1	Stand	13735
2	2	Stabilizing leg axis	13736
3	2	Spring washer	-
4	4	Wedge washer	10916
5	4	Tip	10868
6	2	Screw FHC M8-16	VTFHC 8x16
7	2	Back leg	13734
8	1	Front right leg	13732
9	1	Front left leg	13733
10	1	Stand	30290
11	1	Locking axis holder	10918
12	1	Spring for locking system	10919
13	1	Ring	-
14	6	Screw CHC M8-12	VTCHC 8x12
15	3	Cylindrical wedge	30331
16	3	Screw FHC M8-50	VTFHC 8x50
17	1	Locking system axis	30332

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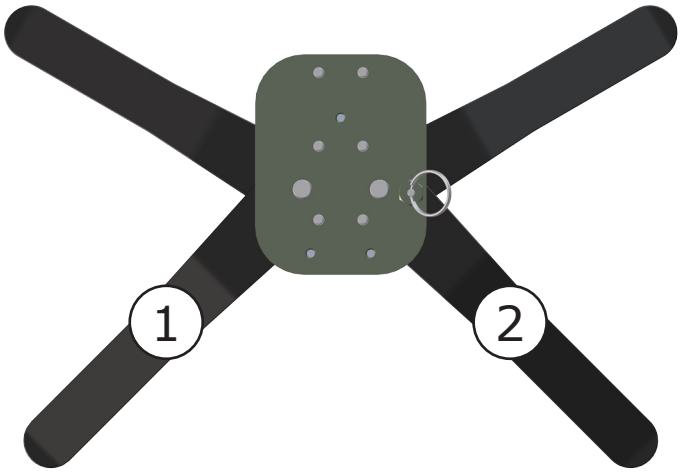

1

Ref : 29118

2

Ref : 18102

Warning

Would you please respect the information given in this document. Ignoring them might cause wrong results or might damaged the device.

Do not pull apart the device, electric shock might occur.

Pulling the device apart outside our factory cause a guarantee loss.

Pulling apart and/or modifying the device by unqualified person might cause wrong results and/or damaged the device.

Only POK SA can repair the device and making it working well, without danger.

The exploded view and bill of materials given in this document or not pulling apart notes. They do exist only to make technical support easier.

Bluetooth® is a registered trademark by the Bluetooth SIG Consortium.

Would please respect rules about your environment/installation before using the device, it emits continually bluetooth waves when working, which might not be allow in some place and/or condition.

Bluetooth waves might in rare cases create interference with other electronic devices.

Using electronic device might be forbidden according to the places and/or conditions in those you are.

Do not expose to an excessive heat.

POK SA can't be responsible of any damage due to a pull apart outside of its factory, a modification or a bad use of the device.

• Introduction :

The POK flowmeter offers a precision of about 3% (for the flow rate) only in certain flow rates limits, variable following the inlet diameter.

DN 40 (1.5") : 100 l/min to 1000 l/min (26GPM to 260 GPM)
DN 65 (2.5") : 300 l/min to 2500 l/min (80 GPM to 660 GPM)
DN 80 (3") : 500 l/min to 3000 l/min (130 GPM to 800 GPM)
DN 100 (4") : 1000 l/min to 5000 l/min (260GPM to 1350 GPM)

Results outside this value might not be correct.

The maximum pressure of use is 16 bar (230 PSI), over this value the sensors might be damaged.

The flowmeter is not waterproof. Seals are present in order to protect the electronic parts from few water projections.

Before exposing the device to an environment with liquid projection, make sure the battery case and the cap on the binder plug are correctly closed.

The flowmeter is supplied only with a 9V battery. If this battery can be recharged, it will have to be done outside the battery case.

Do not expose the device to a heat over 70°C (158°F), the electronic parts might not resists.

A user manual reminder is stuck on the device if needed.

• How to use the flowmeter :

The flowmeter is made of a screen which is able to indicate 4 characters, 2 lights (on the screen, on the top left corner and on the bottom right corner) and a push-button (in a yellow circle).

Pushing the push-button "select" make the flowmeter working, it will indicate the flow rate unit during 2 sec (GPM or LPM depending your configuration), the flow rate will appear after.
Pushing one more time the push-button allow the pressure to be indicated (PSI or bar depending on your configuration).

The device will be turned off automatically after 15 sec.

Please notice that if you don't remember on which mode you are, a light is on the screen, on the top left corner to indicate the pressure mode and on the bottom right corner to indicate the flow rate mode.

Changing the battery is easily made by removing the 4 screws (rep.18 on the flowmeter exploded view) on the device side, then remove the cap. Extract the battery and change it before closing the case correctly.
Please do this in a dry place.

Note : Please make sure the couplings are correctly attached before putting the device under pressure.

• How to use the stand :

Some flowmeters might have a stand like the one shown in this document.

- 1 - Unfold the stabilizing legs by pulling one of them.
- 2 - Make sure the locking system locks the legs.
- 3 - Make sure that all the legs' tip are in contact with the floor, and that the flowmeter can't slip.

After using the device, the legs can be fold by pulling the ring on the locking system.

Note : Do not walk or put weight on the stabilizing legs, it would damage it.

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• Cleaning and tidying the device :

In order to preserve the device, it is important to :

• Make sure the cap on the binder plug is correctly closed before cleaning/tidying it.
• Clean up with clear water after every use.
• Do not use high pressure jet.
• If salt or unclear water has been use, make the device working with clear water to remove corrosive parts.
• Do not use corrosive products, it might damaged the seals and/or the electronical parts.
• Do not tidy the device moist.
• Tidy the device in a dry place and away from rodents and/or pests.
• Do not tidy the device in a place with a high humidity rate in the air.

• Spare parts :

Please contact our sales service in order to be informed on tariffs and conditions for returns or to obtain spare parts.

Use the bill of materials in this document to identify the parts to change.