rapid® GERMAN TECHNOLOGY

ZPA AB/Z # 28 283

OPERATION MANUAL

1.

1. Safety instructios

Please observe: This operation manual contains all necessary information. Please read carefully to avoid damages and faults. All Rapid pieces of equipment are checked carefully before delivery for their perfect composition and function. In case of improper use all rights to claim under guarantee are void.

Make sure that only skilled staff is working with this device in order to prevent damages and accidents caused by improper use.

Environmental conditions i.e. humidity, low temperatures, sunlight and contamination may damage device.

Before using the device make sure that it is not contaminated to prevent any injury. Avoid any contamination of device as well as of environment. In case of any contamination during operation of device take care that it is immediately and professionally removed.

Always wear safety cloths respecting the applicable regulations for accident prevention

Only use this device conforming to its purpose and function. Improper use can cause severe injuries.

Caution – moving parts, sharp edges, hot machine parts or exhausting steam can cause severe injuries.

Before use always check the device for damages and leaks. In case of any damage or leak make sure that it is repaired professionally before use. Operation of defect device may cause severe injuries.

In case of any sign of damage or malfunction during operation of device stop device immediately to prevent injuries. Before next use make sure that the device professionally repaired.

Take care that in case of an accident all emergency measures are on hand

2. General advice

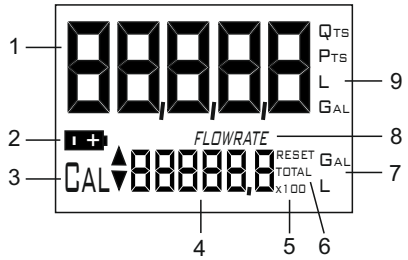
The liquids compatible with turbine digital meter must be at low viscosity, namely:
- Water/urea solution
Use of other fluids may be inaccurate and can damage the meter
Not suitable when used in a retail sale!

3. Technical data

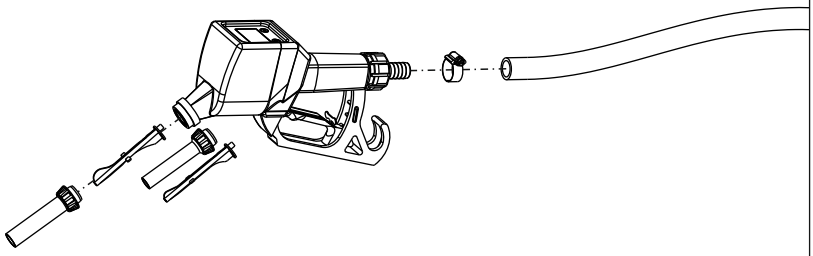
Medium	Diesel, Adblue, Kerosene, Gasoline
Inlet & outlet	3/4" & DN 19 / DN 15
Accuracy	±0,5%
Repeatebility	±0,3%
Max pressure	20bar
Voltage	3V
Lite time	2 years
Flow range	10-100l/min
Partial total	0,00-9999,9
Total	0,00-99999,9
unit	L, Gal, PTS, QTS
Clean partial total	RESET

4. Description

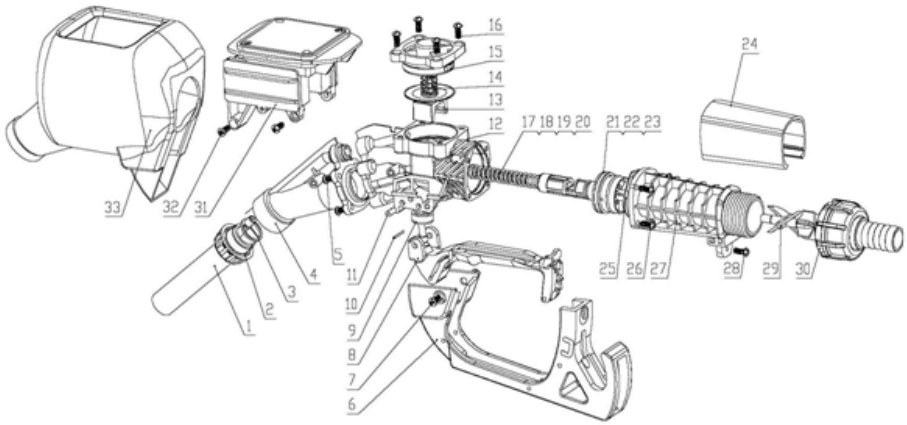
The ZPA-AB/Z is designed for dispensing Adblue and has a digital meter.
The delivery contents two nozzles DN 19 / Dn15 with tubes.



1 Partial total	4 Total	7 Unit
2 Battery	5 Reset TOTAL	8 Flow rate
3 Calibrate	6 Total X100	9 Unit: L, GAL, PTS, QTS



6. Parts and accessories



No.	Description	Qty
1	Spout	1
2	O-Ring (22x1,5)	1
3	Self sealing tube	1
4	Nozzle body	1
5	Screw	4
6	Guard	1
7	Screw	2
8	Lever	1
9	Oil seal	1
10	Pin dia 1,5x15	2
11	Pin dia 4x8,5	2
12	Nozzle body-1	1
13	Diaphragm components	1
14	Spring	1
15	Valve gland	1
16	Screw	4
17	Sping 1	1

No.	Description	Qty
18	Sping 2	1
19	Control axis	1
20	Axle sleeve	1
21	Valve seat	1
22	O-Ring (26,5x2,5)	1
23	O-Ring (24x1,8)	1
24	Nozzle-body-3 housing	1
25	O-Ring (30x1,5)	1
26	Screw	4
27	Nozzle-body-3	1
28	Screw	1
29	Impeller	1
30	Inlet thread	1
31	Meter	1
32	Screw	4
33	Holster	1

7. Operation

7.1 Dispensing

For dispensing insert nozzle spout into tank or container to be filled. Operate lever until the nozzle shut off or the requested level is reached.
Lever can latched.

Do not let nozzle unattended during the dispensing to prevent pollution or damages!
Protect the nozzle after use to prevent damages or hazards.

7.2 Unit Set

Under the state of standby or current charging display, press the button of CAL and RESET at the same time for 2 seconds. Enter the setting of unit conversion and press the RESET button choose the measurement unit in turn according to the order of LTR to QTS to PTS to GAL to

LTR meanwhile the accumulated charging quantity will be displayed based on the conversion of the current measurement unit conversion. Then press the CAL button to quit the unit conversion setting.

7.3 Clear Reset Partial Total

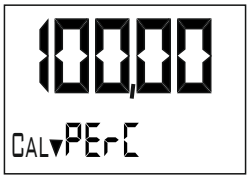
Press RESET, until LCD displays full screen, wait a few seconds, stop press RESET
The flow meter is ready to clear reset partial total.

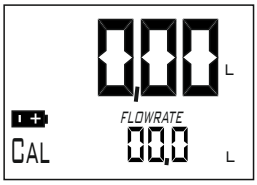
7.4 .Example of Factor Calibration

When the flow meter is stable or current charging display ,press CAL for 3 seconds,The flow meter shows F|ELd.Then press RESET, it shows PErC, then press CAL, we can calibrate the flow meter now. On the left bottom,the flow meter shows PErC. When the number is blinking, press RESET, so the number will increase.
CAL, the place of edited number changes. Adjus the numbers as the calibration affords it (The bigger of the Number,the less of the outlet of fuel. Vice versa.) .Press RESET for 3 seconds, the calibration finishes.The flow meter will return to the partial total and then it shows the partial total clear
After calibration, the flow meter will use new factor to calculate.
The range of the factor:0.01-655.

1 When the flow meter is stable or current charging display ,press CAL for 3 seconds, it shows FIELd.Then press RESET,The flow meter shows PErC.

2 Press CAL,The display shows:



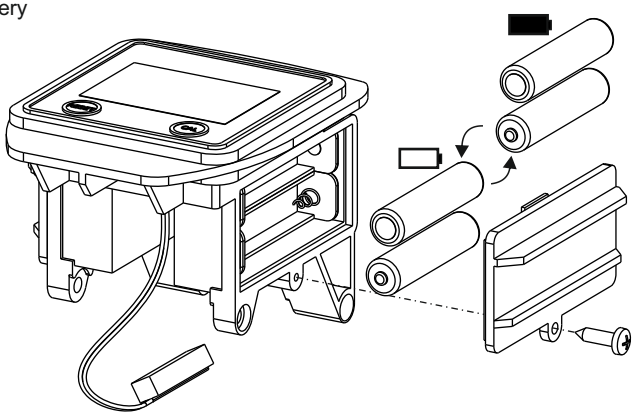
3	Then press CAL,we can calibrate the flow meter now. On the left bottom, the flow meter shows PErC and 100 above it. When the arrow is above, press CAL, the number will increase. When the arrow is downward, press CAL, the number decrease. Press RESET to change the direction of arrow. (The bigger of the number, the outlet of fuel less. Vice versa.) .	
4	For example, the old factor is 100, means the outlet of fuel is 100l. If you want to reduce 2l, change the factor to 100.20. Then the outlet is 98l.	
5	For example, the old factor is 100, means the outlet of fuel is 100l. If you want to increase 2l, change the factor to 99.8. Then the outlet is 102l.	
6	Press and hold CAL, the calibration finish.	

8. Maintanence and trouble shooting

If the nozzle does not operate properly please check the feeding line and the pout for damages or contamination. Clean (wash off or rinse) the nozzle ore repair.
For other dysfunction kindly contact manufacturer.

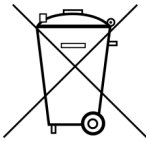
This flow meter needs the battery with life span of at least 9000 hours (1 year) as the power supply. The short battery life will lead to the battery leakage during working and result in the damage of the flow meter. The standby life of this flow meter is designed as 2 years. Battery replacement every one year is recommended. In case the LCD display becomes dim or the Lbat occurs, it is time to replace the battery. We recommend the users to check the Battery electrode to clear the rusting in case. Take out the battery if the flow meter is not used for a long time.

8.1 Change battery



9. Disposal

9.1 Completely empty all parts of the equipment (hoses, pumps , tanks , etc) and given case blown out with air .
9.2 dangerous parts of the appliance must be made unusable f.e. perforate pressure vessel , deform hose reels , etc.
9.3 rubber , metals, glass ect. must be separated .
Dispose material fractions according to the local laws and regulations .



YOUR CONTRIBUTION TO PROTECT THE ENVIRONMENT

The pertinent regulations for the registration, setting up and operation of equipment for dealing with materials hazardous to water must always be complied with by the user.

10. Warranty

10.1 In case of insufficient maintenance, faults on operation, use of not adequate spare parts or attachments all liabilities and rights of claim under guarantee are void.
10.2 The manufacturer is not liable for improper use of the container or ignoring the safety instructions.
10.3 Technical modifications are subject to change without announcement.

Rapid Group GmbH • Bahnhofstraße 53-55 • 64560 Riedstadt • www.rapid-group.de • Telefon: + 49 (6158) 92980-0 • Fax: + 49 (6158) 92980-50 • info@rapid-group.de