



DZP 20-Z # 28 115



Failure to follow the safety rules and other basic safety precautions may result in serious personal injury. Save these instructions in a safe place and on hand so that they can be read when required.

OPERATION MANUAL

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1.

1. Safety instructions



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

Don't let the DZP 20-Z unattended during dispensing and remove possible pollutions according to local regulations to prevent accidents.

3. Technical data

The liquids compatible with auto shott off digital nozzle must be a low viscosity bamely as below

Modell no.	DZP 20-Z	Accuracy	5-Digit present total (0,01 ~ 999,99)
Flow rate	up to 60 LPM / 16 GPM	Fluid type	Diesel & kerosene
Units	Einheit (Liter, Gallonen, Pint, Quarts)	Screen	7-Digit non-resettable total (1~9999999)
Pressure (max)	50psi/3,5bar	Inlet and outlet	3/4"
Tolerance	±1%	Weight	1,3kg
Temperature	-10°C bis +50°C	Power supply	2xAAA

Use of other fluids may be inaccurate and can damage the nozzle
Not suitable when used in a retail sale of diesel, oil or kerosene !

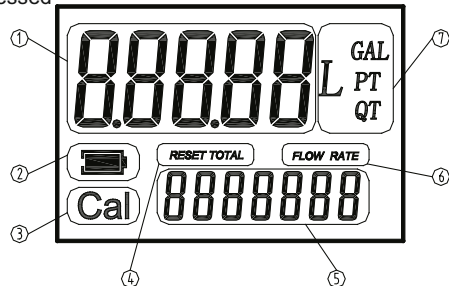
4. Description

LCD-Display

The LCD of the meter features two numerival registers and various indications displayed to the user only when the applicable function so requires.

Key

- ① Partial register (5 figures with moving comma from 0.1 to 99999) indicating the volume dispensed since the reset button was last pressed
- ② Indication of battery charge
- ③ Indication of calibration mode
- ④ Indication of resetting present total to zero
- ⑤ Total register
- ⑥ Indication of flow rate mode
- ⑦ Indication of unit of measurement of partial :
L = Litres
GAL = Gallons
PT = Pints
QT = Quarts



User buttons

The turbine digital meter features two buttons (MENU and RESET) wich individually perfrm two main functions and together, other secondary functions.

The main functions performed are:

For the reset key, resetting the partial register and reset table total (reset total)

For the menu kea, entering instrument calibration mode.

used together , the two keys permit entering configuration mode.

Battery replacement

When replacing the battery, please open the cover, remove the plug and replace the battery.

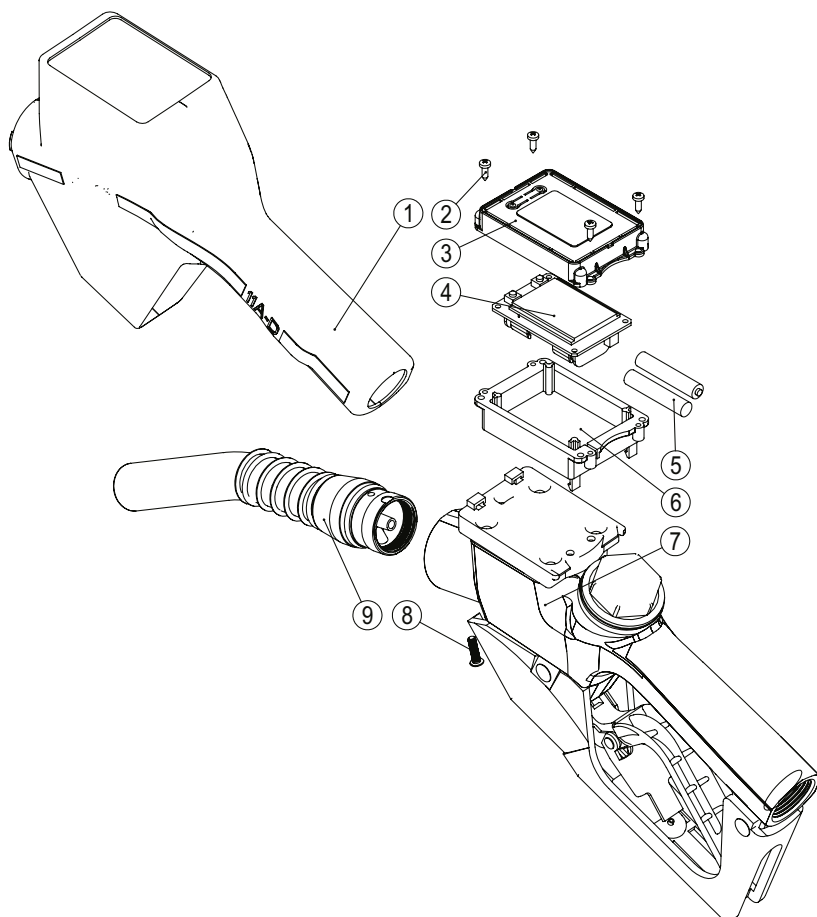
5. Assembling / Installation

1 Connect the nozzle directly with the delivery hose. Please be ensure the thread is sealed.

2 Turn on the dispenser, open the trigger of nozzle to start dispensing. For first time using, it is necessary to turn the trigger on and off 2-3 times to discharge the air inside.

3 After dispensing, turn off the nozzle and take back to the nozzle holder.

6. Spare parts and accessories



No.	Description	Qty.
1	Nozzle cover	1
2	Screw	4
3	Meter cover	1
4	LCD Display	1
5	Battery AAA	2
6	Meter base	1
7	Nozzle body	1
8	Screw	1
9	Spout	1

7. Operation Meter setting

1 Button usage, Calibration and measurement unit change

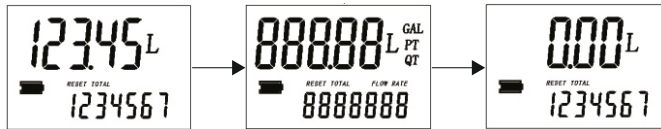
Reset the present total (see fig.2)

1.1 When the meter is on standby, press the RESET key.

1.2 The display shows all the segments.

1.3 The meter resets the present total already.

Example:



Show current correction factor and general total (see fig.3)

Press MENU and RESET together and hold for two seconds.

Value „1.4000“ is the correction factor which can be reset; „1234567“ is the general total which can not be reset.



Measurement unit change (see fig.4)

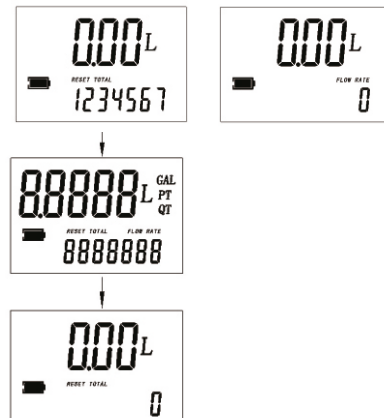
Press MENU and RESET together and hold for five seconds.

Zone 7 on the display is the current unit. Press RESET to choose a different measurement unit and then press MENU to confirm.



2 Reset the resettable total (see fig.5)

When the meter is on standby, press the RESET key for 2 seconds to reset the present total first.



METER SETTING





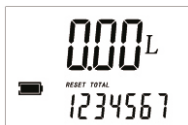
3 PROCEDURE FOR ENTER THE CORRECTION FACTOR DIRECTLY

Carefully follow the procedure indicated below.

FORMULA

Proper correction factor = current correction factor × (actual value / display value)






Actual value 20.75
 Display value 18.96
 Current correction factor 1.000
 Proper correction factor $1.000 \times (20.75 / 18.96) = 1.000 \times 1.094 = 1.094$

1	Wait for the meter to go to standby.	
2	Reset the resettable total.	
3	Press the MENU key. Keep it pressed until similar with the image showed (the digit flash in ① zone), it means the meter is in correction factor modification mode.	
4	Press the RESET key to choose the right digit from 0 to 9. Press the MENU key to start the next digit. So the digit of correction factor can be changed one by one.	
5	Make sure the correction factor is right, press the MENU key. Keep it pressed until quit calibration mode, the factor is saved. The meter goes to standby again.	

METER SETTING

4 MODIFY THE CORRECTION FACTOR IN FIELD

PLEASE CAREFULLY FOLLOW THE PROCEDURE INDICATED BELOW.

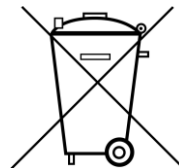
1	Wait for the meter to go to standby.	
2	Reset the resettable total.	
3	Start dispensing into a measuring glass. Stop dispensing when over 5 Litres of volume is reached, read out the actual value. The volume that is displayed on the LCD is the Display Value, not the Actual Value which may be slightly higher. For example, in the figure on the right, the Display Value is 18.96 while the Actual Value is 20.75.	
4	Press the MENU key. Keep it pressed until showed as the right fig., the digit flash in æ zone, Press the RESET key to choose the right digit from 0 to 9. Press the MENU key to go the the next digit so that the Actual Value can be input.	
5	Make sure the correction factor is right and then press the MENU key. Keep it pressed until calibration is finished and the factor is save. The meter will then return to standby.	

8. Maintenance and trouble shooting

Problem	Possible cause	Corrective action
LCD: No indication	Bad battery contact	Check battery contacts
Imprecise measurement	Wrong FACTOR	With reference to paragraph 3.3 & 3.4, check the FACTOR
	The meter works below minimum acceptable flow rate	Increase the flow rate until an acceptable flow rate range has been achieved
Reduced or zero flow rate	Turbine blocked	Clean the turbine
The meter does not count, but the flow rate is correct	Incorrect installation of turbine after cleaning	Repeat the reassembly process
	Possible electronic card problems	Contact the dealers or manufacturer

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.