Digital Oil Control Valve
Instruction Manual

WARNING: **Read carefully and understand all INSTRUCTIONS before operating. 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. Keep these instructions to assist in future servicing.

REV 06/28/16

TECHNICAL DETAILS

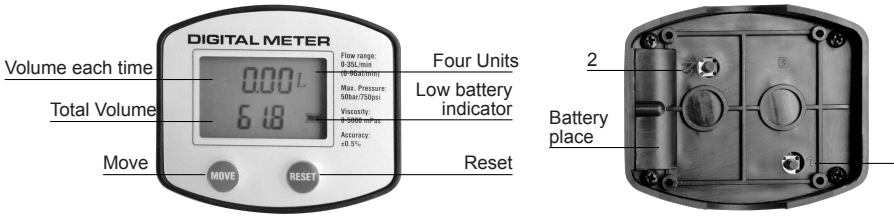
Description	America	Europe
Flow rate Range	0-9.2GPM	0-35L/m
Operating Pressure (Maximum)	1500PSI / 100BAR	1500PSI / 100BAR
Working Temperature	14°F -+122°F	-10°C-+50°C
Accuracy	±0.5%	±0.5%
Applied Viscosity of Fluid	8-5000mPas	8-5000mPas
5-Digit LCD Display	Quarts, Pints, Gallons	Liters
Inlet and Outlet Connections	1/2" NPT	1/2" BSP

GENERAL

The digital meter gun with rigid tube and manual tip(or flexible hose and semi-auto tip), with the appropriate connection to establish a controlled flow through the meter.

METER

1. 5-digital liquid crystal display for both volume each time and total
2. 4 units: L, GAL, PT and QT
3. Accurate to the second decimal place
4. Low battery indicator
5. 4 buttons: "Move", "Reset", "1" and "2" (back of the meter)



Attn: Do not apply the meter as a measuring tool for commecial trading

DETAILS OF OPERATION

1. Before putting into operation

- Check the technical data of the installation match with those of the lube meter. For example connections, pressure, flow range and medium. Use the formula: Proper correction factor = (actual value / displayed value) x current correction factor to decide the right connection factor, then set the proper correction factor (refer to 3. Button usage part)
- Once the meter has been installed, please make sure that no air pressure shocks or particles can damage the meter
- Please check all connections to avoid leakage

2. Change the battery

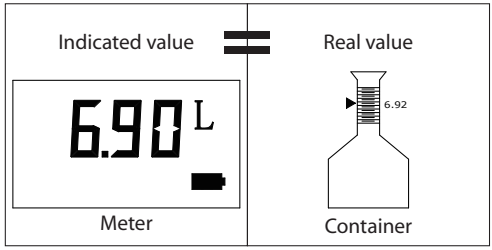
- Battery type: Lithium CR2, 3V/1400mAh
- Last for 8 years of operation, corresponds to approx. 500,000 litres (132,000 US GAL)
- Change the battery like below when the battery signal is flashing on the display
- Remove the protector cover, unscrewing the screw
- Change the battery and screw the lid on again

3. Button usage

• Move►Choose the digit or unit during modification
• Reset ► 0.00 Back to 0.00 or change the chosen digital by “+1” or switch the chosen measurement unit
• “2” ► Into correction factor or measurement unit change mode
“1” ► Activate the meter again incase it is dead
• Move+Reset<5sec. ► Show current correction factor
• Modify correction factor
• “2” for 1sec. ► into correction factor change mode
Move ► Choose the digit wanted to change
• Reset ► add 1 on the digit, until reach the right number
• “2” for 1sec. ► quit correction factor mode

1. Press “RESET” set all the digit to 0

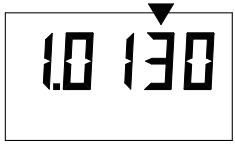
2. Turn on digital oil Control Valve, dispend fluid into a container with standard measurement. Turn off the control valve after the meter shows over 5L, The digit on the meter is indicated value; the real value is the volume of the container:



If the Indicated Value=Real value, no need to modify for the correction factor. Use directly after press ”Reset” .

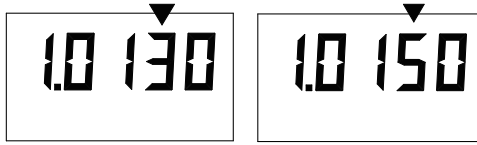
If the Indicated Value<Real value, please do the adjustment as below steps.

3. Press “MOVE”+”RESET” show current correction factor.



4. Use the formula : Proper correction factor=(Real value/Indicated value)* current correction factor, for example : proper correction factor=(6.92/6.90)*1.0130=1.0159.

5. Press KEY “2” for 1 sec into correction factor adjust mode, press ”MOVE” choose the digit needs to correct, then press “Reset” to adjust to the right digit. Press KEY“2” for 1sec to quit . For example: Press “MOVE” to the digit “3” and it will flash, press ”RESET” change “3” to “5”



6. Press KEY “2” for 1 sec to quit setting mode, and press “Reset” to set all the digit to 0. Then the correction factor setting is done and can start to use the nozzle.

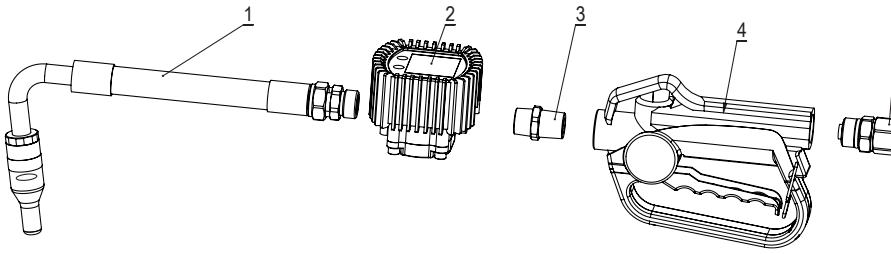
• Change measurement unit
• “2” for 1sec. ► Into measurement unit change mode
• Move ► Choose the unit want to change
• Rest ► Switch between the four units (L, GAL, PT and QT)
• “2” for 1 sec. ► Quit measurement unit change mode

INSTALLATION PROCEDURE

The digital gun is equipped with a 1/2” (BSP/NPT) female thread on the inlet side. In order to obtain a leakage free connection from the meter to the hose, the hose end must have a 1/2” (BSP/NPT) MALE THREAD.

• Clean both threads from fat.
• Brush the 1/2” male thread at the hose with liquid sealant sealing.
  Please be careful that no sealing gets in to the meter.
• Screw both part together.
  Do not cover-tighten the screw connection: otherwise the swivel of the meter could be damage.

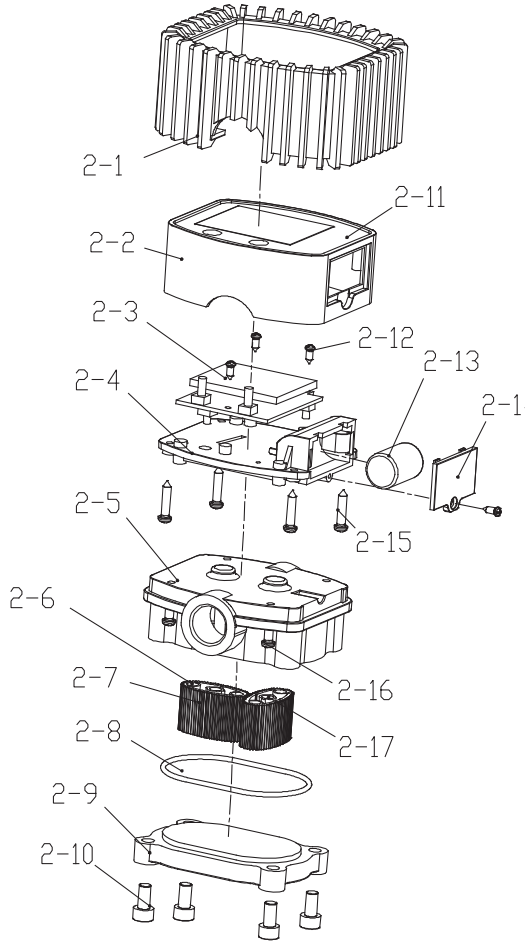
OIL CONTROL VALVE EXPLORED DRAWING



Part No.	Description	Q’ty	Part No.	Description	Q’ty
1	Spout	1	4	Handle Body	1
2*	Meter	1	5	Swivel Fitting	1
3*	Adapter	1			

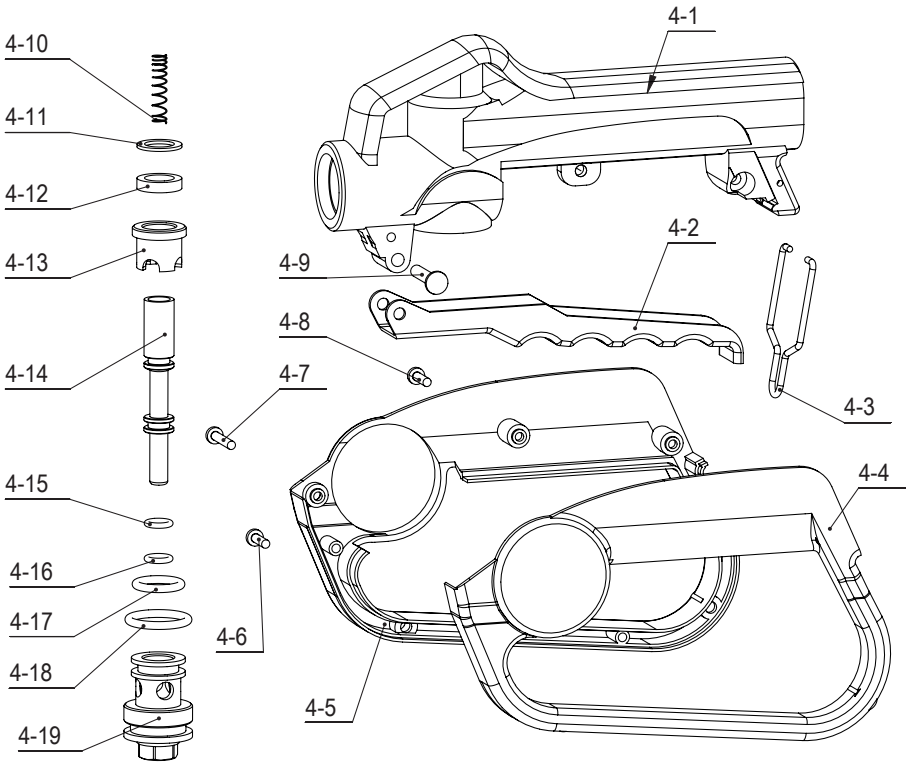
Note：＊ digital oil control valve part

EXPLORED DRAWING



Part No.	Description	Q'ty	Part No.	Description	Q'ty
2-1	Rubber Protector	1	2-10	Screw	4
2-2	Meter Cover	1	2-11	Label	1
2-3	Main Circuit Board	1	2-12	Screw	4
2-4	Fix Board	1	2-13	Battery	1
2-5	Seat	1	2-14	Battery Cover	1
2-6	Magnetic Rod	2	2-15	Screw	4
2-7	Oval Gear	2	2-16	Screw	4
2-8	O-ring	1	2-17	Shaft	2
2-9	Meter Holder	1			

VALVE BODY EXPLORED DRAWING



Part No.	Description	Q'ty
4-1	Handle Body	1
4-2	Trigger	1
4-3	Trigger Lock	1
4-4	Left Grip	1
4-5	Right Grip	1
4-6	Screw	2
4-7	Screw	1
4-8	Screw	2
4-9	Pin	1
4-10	Spring	1

Part No.	Description	Q'ty
4-11	Washer	1
4-12	Seal	1
4-13	Bushing	1
4-14	Slip Pole	1
4-15	O Ring	1
4-16	O Ring	1
4-17	O Ring	1
4-18	O Ring	1
4-19	Piston Sleeve	1