Pro-Tech TOOLS

Digital flow meter, fuel and oil flow counter

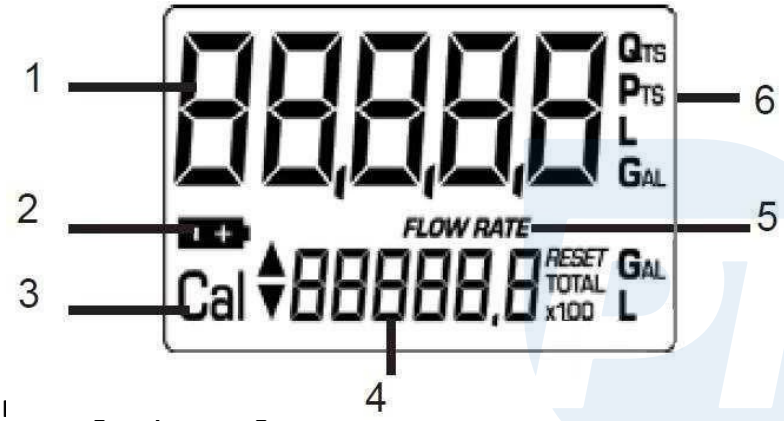


User manual

Translation of the original manual

It is recommended to install a filter upstream of the meter to remove any metal particles from the liquid that could stick to the meter's magnets and distort the measurement result. If the impeller does not rotate freely, apply penetrating grease to the impeller, shaft and bearing. Remove any dirt or deposits from the impeller using a soft brush. Take care not to damage the impeller or the turbine support.
To ensure measurement accuracy, ensure that there is no air in the system and that the minimum volume flow requirements are met before use. Keep the device away from strong magnetic fields and protect it from impacts.
Replace the batteries when the message "L Bat" appears.

Technical specifications:
Model: BL-B06
Power supply: 2x AAA batteries
(1.5V) Max. pressure: 2.5 bar
Flow range: 10–100 l/min
Accuracy: ±1%
Fluid: Diesel, Oil, Petrol Max.
fluid temperature: 40°C
Connection: 1"
Protection rating: IP44



1. Partial register displaying the volume measured since the last press of the reset button.
2. Battery charge indicator;
3. Calibration mode indicator;
4. Total register indicating the total fuel level;
5. Flow rate, indicating the current fuel flow rate;
6. Partial measurement unit indicator (default unit is litres)

The partial register can be reset by pressing the "RESET" button.

Switching between flow rate and total fuel volume
Press the "CAL" button to switch from "TOTAL" mode (total fuel volume measured by the meter) to "FLOWRATE" mode (flow rate).

Total amount
"TOTAL" indicates the total amount of fuel measured. When the total reaches its maximum, the display automatically resets to zero.

Calibration v1
To calibrate, press one of the "+" or "-" buttons on the right-hand side of the display. The word Cal will appear in the bottom left corner and the current flow multiplier will be shown at the top. Before the screen returns to its original state (the display is programmed to return to standby mode after 1 second), press the "+" button to increase the multiplier and the "-" button to decrease the multiplier. A short press changes the value by 1; holding the button down changes it by 10 units.
The relevant formula between the coefficient and volume: 0.1 = 10 l, 0.01 = 1 l, 0.001 = 0.1 l.

Example: (the current coefficient is 1.000)
- If the meter reads 100 l and 102 l of liquid has been drawn off, set the coefficient to 1.000 – 0.02 = 0.980
- if the meter reads 100 l, whereas 98 l of liquid has been drawn off, set the coefficient to 1.000 + 0.02 = 1.020

Calibration v2

To calibrate, press and hold the "cal" button and the current flow multiplier A0 will be displayed. Use the "cal" button to change the flashing digit to the next higher number and use the "reset" button to move to the next (flashing) digit. After a few seconds without user input, the display will return to the main screen.

By pumping a known quantity of fuel X and subtracting the displayed quantity Y, we calculate the new multiplier A=X/Y*A0, which must be entered following the procedure described above.