

Oil Watchman Bundman Installation Titan BT2500



Version 1

November 2000

Oil Watchman



In this bag you will find your Oil Watchman Display, the products guarantee card and a power-tube (battery).

Plug in your Oil Watchman display and turn on the power. You will see your product serial number displayed followed by an “r” or “L” – standing for rest or listening. Write this number on your product guarantee card supplied with the Watchman for subsequent posting. (Note you can turn the display on and off as many times as required to have this number repeated.



Inside the outer tank you will see the Oil Watchman transmitter mounted on the inner wall of the outer tank, on a bracket secured to the back of the Bundman. Fit the power tube onto the thread on the top of the transmitter and loosely tighten.

Finally view the display – within a few minutes the display will change from the “r” to the level in the tank. See over for more detail on the readings and the service information.

Now please post your guarantee card to Sensor Systems.

Bundman

To operate the bundman the “Press and Hold” button should be pressed and held. Once the button is depressed the Bundman activates its remote sensor, which is positioned close to the bottom of the outer tank, to check for the presence of fluid. All three lights will flicker until one of the lights illuminates on its own with the following meaning:

- | | | |
|------------------|---|---|
| Bund Empty | - | Normal Reading – sensor working and no fluid exists. |
| Not Empty | - | Fluid has been detected by the sensor – have the fluid removed and establish the cause. |
| Sensor / Battery | - | Either the sensor is disconnected (check lead plugs) or damaged or the battery level is so low as to require bundman replacement. |



This product allows the tank user or fuel delivery driver to check that no fluid is present between the inner and outer tanks. It has a sealed for life battery. If fluid is allowed to be present between the tanks (rain water from a tank lid inadvertently left open or a leak from the inner tank) this can have the effect of allowing the inner tank to float, with the potential for damage to the tanks outlet. This area can be checked at any time by just continually pressing the button on the Bundman panel. The tank should be checked from time to time and before and after a fuel delivery to ensure that no fluid exists.

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USER INSTRUCTIONS

Level displays

Your Watchman displays the level in your tank in 1/10^{ths} of the Working Capacity of the tank. The Working Capacity of the tank is approximately equal to 90% of the physical capacity. This reduction allows for the unreachable oil below the tank outlet and some room in the tank for product expansion with temperature.

For example for a 1000 litre tank the Working Capacity would be 900 Litres and the readings would be interpreted as follows:

When		Volume range in tank
Reading 0	=	0 to 90 L
Reading 1	=	91 to 181 L
Reading 2	=	182 to 272 L
Reading 9	=	819 to 900 L
Reading F	=	Full (900 L)

Red Light

This flashes slowly, once every five seconds with the "r" or "L", and quickly, once every second with Low Fuel displays of 1 or 0 to draw these to your attention. Note at level 1 you still have between 10% and 20% of fuel left in the tank.

How to Change battery or reboot your system

1. Switch your Watchman display off and on again – you will see the serial number displayed followed by "r" or "L" standing for rest or listening.
2. Unscrew and remove the old power tube from your transmitter, wait for 2 minutes and then screw on your new power tube.
3. Within a few minutes your Watchman will display your tank level.

REMEMBER TO DISPOSE OF YOUR OLD POWER TUBE THOUGHTFULLY AND IN ACCORDANCE WITH LOCAL REGULATIONS. THE POWER TUBE CONTAINS ALKALINE CELLS AND MUST NOT BE EXPOSED TO EXCESSIVE HEAT OR PUT IN A FIRE.

Other displays.

C means "Connection Fault".

The connection between your transmitter and probe is poor or that the probe has significant damage.

Level and "P" means "Probe Fault".

One of the sensors on your probe is damaged. The level displayed may be less than actually in your tank.

Level and "Bat Low" means "Power Tube Low"

You will soon need a new Power Tube. As long as your level display is not flashing it is valid.

Level Flashing means flat Power Tube

Level no longer valid - fit a new Power Tube.

PLEASE CALL SENSOR SYSTEMS OR VISIT WEBSITE TO LOCATE YOUR NEAREST POWER TUBE STOCKIST