Apollo Level Alarm

1. Setting the Receiver

The receiver unit has a row of switches on its reverse, which allow you to set it correctly for the height of the tank (between 0.5m and 3.0m) and give you accurate level readings. Using the ‘Tank Height Chart’ which comes with your product, set the switches accordingly using a pen or small screwdriver etc.

2. Matching the Receiver and Transmitter

You should match the receiver with the transmitter so that the system code is unique to your tank. You will only need to do this once.

Plug the receiver into a suitable and convenient electrical socket and switch on the power.

The display screen on the front of the receiver will show a flashing bar (as shown in the image, left). This indicates that the receiver is awaiting a unique code. The flashing top bar will last for about two minutes, during which time you can match the transmitter to the receiver, as follows.

Hold the transmitter against the receiver's right hand side, as shown, so that the black 'dots' are touching each other (IMPORTANT!) Hold for about twenty seconds to allow the unique code to be transferred.

Bars will increase up the display screen.
During the matching process you will hear an audible beep to indicate matching is in progress. A change in tone will indicate completion of the matching process. When all 10 bars are shown, they will flash to indicate that the process is complete.

3. **Fitting the Transmitter**

On the top surface of the Tuff Tank you will find a pre-drilled, 32mm hole (generally with a green sticker around its outside) into which a plastic bung will be inserted. Remove the bung, insert the transmitter vertically into the hole and secure it in place using the two screws supplied. Other tanks you may want to monitor should have a similar facility.

**IMPORTANT!** Always ENSURE the transmitter is mounted vertically on top of the tank.

The Apollo monitor is now fully installed: the current level will generally be displayed on the screens within 10 minutes.

**In the event of power failure or interruption**

When power returns, the receiver display screen will show the top bar flashing. There is no need to repeat the matching instructions. The top bar will continue to flash for two minutes after which time the display screen will revert to the last valid reading.

**On screen displays**

**NORMAL MESSAGES**
(images for illustration purposes)

- **Full**
- **Empty**

**OTHER MESSAGES**

Flashing triangle, no bars. No radio signal received from transmitter (for a period greater than 4 hours)

- Check for correct matching procedure
- Location of receiver to transmitter (try repositioning receiver)

**Fixed triangle only**

Low battery warning. Unit will continue to give a reading until the battery is exhausted.

- Replace Lithium CR2430 battery in transmitter
Fixed triangle, middle bar only
No ultrasonic echo - Failure of transmitter to receive an echo from the liquid surface.

Battery removal
Remove the transmitter unit from the tank and take it to a safe location. The battery can be accessed by removing two self-tapping screws from the base of the unit, as shown.

Remove the old battery, noting the orientation (‘+’ mark facing outwards) and replace with a new battery.
3V - CR2430

Re-assemble, ensuring that the O-ring is undamaged and secured in position.

Relocate the transmitter on the tank. You do not have to rematch the transmitter with the receiver.

Specifications
Tank depth measurement:
Min depth : 0.5m, Max depth : 3m

Max communication distance:
200m in normal ‘line of sight’ conditions

Power supply:
Receiver: 150-250V, 50-60Hz, EN60335
Transmitter: 3V Lithium Cell

Battery life:
10 years (estimated life)

Wireless communications:
433mHz. FM transmission, EN300-220

Max and Min operating temp (Transmitter):
Operating temp range: -10°C to +60°C

Not suitable for pressurised containers. Use on tanks vented to atmosphere.