**INSTALLATION GUIDE**

Do **NOT** install/fit your Apollo Smart Transmitter to the tank at this time.

**Your tank dimensions chart**

<table>
<thead>
<tr>
<th>Type of Tank</th>
<th>Drum Type</th>
<th>Drum Height (mm)</th>
<th>Diameter cm</th>
<th>Capacity (Lt)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Large Round</td>
<td>1000</td>
<td>1200</td>
<td>100</td>
<td>1200</td>
</tr>
<tr>
<td>Small Round</td>
<td>500</td>
<td>600</td>
<td>50</td>
<td>600</td>
</tr>
</tbody>
</table>

**Packaging contains:**
- Apollo Smart Monitor + mains plug
- Apollo Smart Transmitter + 2 self tapping screws + weather seal
- Apollo Smart Product manual
- This installation guide

**STEP 2 – SETTING UP YOUR APOLLO SMART MONITOR—cont’d**

SETUP 7 – Setting the fuel cost per litre. Adjust the amount displayed using ±. Press ENTER to save. (You may need to consult you last oil bill or your oil supplier)

**STEP 3 – DETERMINE THE SHAPE OF YOUR OIL TANK**

For tank types shown above, select the tank type that is closest in shape to your tank and complete the chart above.

**Note:** For unusual tank shapes or to improve the accuracy of the Apollo Smart Monitor you may require a bespoke/diagram table. This can be obtained from your tank manufacturer. Once you have the appropriate information, please email it to support@dunraveysystems.com. We will then update the bespoke/diagram table so it is compatible with our equipment and send it back to you, with instructions on how to import it into your Apollo Smart Monitor.

- **Determine the dimensions of your tank either from manufacturer’s data for the tank or by physically measuring to complete the chart**
- **Only need to note the dimensions indicated on the chart shown above**
- For bunded tanks the information required is for the internal tank only, where the Apollo Smart Transmitter will be located.
- **Determine the tank height measure from the top of the tank, i.e. where the Apollo Smart Transmitter will be positioned,** to the bottom of the tank (N.S. of the internal tank in a bunded tank)
- **Determine the capacity of the tank from the manufacturer’s data for the brimful capacity**

**STEP 2 – SETTING UP YOUR APOLLO SMART MONITOR**

On first powering your Apollo Smart Monitor automatically displays its setup mode. The Apollo Smart Monitor screen will show SETUP 1. One or more sections of the display may be flashing. Flashing sections are circled in RED in the diagrams. Please follow the steps below to store the settings to configure your Apollo Smart Monitor.

If you make a mistake and store an incorrect value, simply press ENTER repeatedly until you return to the same SETUP number and then select the correct value and press ENTER to store.

**SETUP 1 – Setting the time (hrs)**
Adjust the hour displayed using ±. Press ENTER to save.

**SETUP 2 – Setting the time (mins)**
Adjust minutes displayed using ±. Press ENTER to save.

**SETUP 3 – Setting the tank type**
Select Tank Type i.e. A, B, C, using ±. To match the Type you noted from above. Press ENTER to save.

**SETUP 4 – Setting the tank capacity (lt)**
Refer to the chart above for normal capacity and adjust the amount in litres displayed using ±. Press ENTER to save.

**SETUP 5 – Setting the tank height (cm)**
Refer to the chart above for tank height and adjust the amount in cm displayed using ±. Press ENTER to save.

**SETUP 6 – Setting the tank width (cm)**
Refer to the chart above for the width and adjust the amount in cm displayed using ±. Press ENTER to save.

**STEP 3 – MATCHING THE APOLLO SMART TRANSMITTER TO THE SMART MONITOR**

The Apollo Smart Monitor must be in LEARN mode which can be entered in one of two ways:
- Pressing SETUP after completing STEP 2 above
- By disconnecting and reconnecting the power

When in LEARN mode the display shows ‘LEARN’ in the main display area. See image 1. LEARN mode will last for 4 minutes during which time you must ‘match/pair’ the Apollo Smart Transmitter to the Apollo Smart Monitor. When using the screw holes of the Smart Transmitter slot it onto the pin as shown in Image 3.

The display of the Apollo Smart Transmitter should be facing in the same direction as the Apollo Smart Monitor’s display as shown in Image 4.

When located properly, the bars in the bar graph display, of both the Apollo Smart Monitor and the Apollo Smart Transmitter will flash and begin to increase in sync together rising from one bar to ten bars. A continuous audible beep and flashing LED on the monitor will also indicate the matching is in progress. Continue to hold the units in place until all 10 bars are flashing. The Apollo Smart Monitor will make a loud beep. The red LED on the Apollo Smart Transmitter will flash. They are now matched and should be separated immediately.

Following the ‘matching/pairing’ the Apollo Smart transmitter will send data continuously to the Apollo Smart Monitor for approximately 10 minutes. Each time the Apollo Smart Monitor receives a reading, it will make a clicking noise and the LED on the Apollo Smart Monitor will blink (this is ‘fast’ mode for the transmitter).

During this time confirm that the matching procedure was successful by slowly raising and lowering the Apollo Smart Transmitter over a flat surface and observing that the display in the Apollo Smart Monitor changes. ‘Fast’ mode will stop after 10 minutes. The Apollo Smart Monitor is now ready to fit onto the tank and should be fitted whilst in ‘Fast’ mode.

You should now proceed immediately to STEP 4 and fit the Apollo Smart Transmitter to your tank. If it is not fitted within 10 minutes, the Apollo Smart Monitor may display an error or an incorrect reading. It may then take up to 2 hours before the correct tank level information is displayed on the Apollo Smart Monitor screen.

**STEP 4 – INSTALLING THE APOLLO SMART TRANSMITTER ON THE TANK**

The procedure is the same for fitting to both old and new tanks. For bunded tanks ensure that the Apollo Smart Transmitter is located on top of the inner tank.

For Tank with pre-drilled 30/50mm hole
- Remove cap from hole and smart transmitter, ensuring the weather seal is securely in place.
- Ensure the transmitter is vertical on top of the tank
- Tighten the screw using the 2 stainless steel 10mm long self-tapping screws supplied. Do not use longer screws. Do not overtighten.

For Tank without pre-drilled holes
- If tank is not pre-drilled, then using a 30/50mm hole saw, drill hole in top of the tank in a suitable area to allow ease of fitting of the transmitter and in an area that the transmitter can see the tank contents. Position so that there are no internal obstructions, i.e. ribs, stays, side of tank, internal equipment, that may interfere with the ultrasonic signal.
- Use installation Help Diagram below to ensure suitable fitting.
- Ensure fitting. Use寺
- Tighten on to the tank using the 2 stainless steel 19mm long self-tapping screws supplied. Do not use longer screws. Do not overtighten.

**STEP 5 – (OPTIONAL) PERFORM ONLY IF THERE WAS A DELAY IN INSTALLING THE APOLLO SMART TRANSMITTER ON THE TANK**

The segments at the bottom of the display will be flashing. Press the ENTER key for 5 seconds. The screen will temporarily show ‘CALC’ and then returns to showing SETUP 1 – Setting the Time (hrs). Press SETUP to leave SETUP mode.

Setup of your Apollo Smart Monitor is now complete and it will now begin to monitor and track your oil consumption on a day to day and week to week basis. On the ‘Days to Empty’ COLUMN the information, ‘-‘ will be displayed for 1 week.

Don’t forget to register your warranty! www.dunraveysystems.com
Should you have any queries, please refer to our FAQ section of the website or complete our online enquiry form.

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