4 CHANNEL FORK LIFT TRUCK MOUNTING TRANSMITTER INSTALLATION MANUAL



NOTE: The model 4244 Transmitter operates in conjunction with Amber models 4221 Single Channel Receiver, 4222 2 Ch and 4224 4 Ch Receivers.

SPECIFICATION

Operating temperature range: -20 to +60 degrees Celsius.
Enclosure & Buttons: IP65
Operating frequency: 433.92 MHz.
Transmitter code type: Secure Rolling code.
Battery: CR2450 Lithium 3V. The battery life should be in excess of 10 years.

ANTENNA

Note that the antenna is internal.

MOUNTING

The Transmitter case may be mounted either on the facia of the fork lift truck or on the engine cover to the right-hand side of the driver's seat using the 4 TEK screws provided: - **This is the preferred position, as the driver is able to feel the positions of the 4 buttons, without looking at the transmitter and safely keep his eyes on the direction of travel of the truck.**

LED Note that the red LED will illuminate when a button is pressed, to confirm that the transmitter is working.

The brightness of the LED is an indication of the state of charge of the battery.

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PROGRAMMING EACH DOOR

The model 4244 Transmitter operates in conjunction with models 4221 Single Channel Receiver, 4222 2 Ch and model 4224 4 Channel Receiver.

If there are more than 4 doors to be controlled by the transmitter, it is suggested that a coloured spot is painted on each door as follows:

DOOR 1, 5, 9, 13 etc. RED
DOOR 2, 6, 10, 14 etc. YELLOW
DOOR 3, 7, 11, 15 etc. GREEN
DOOR 4, 8, 12, 16 etc. BLUE

Alternatively, consideration should be given to using our new patented model 4416 16 Channel Fork Lift Truck transmitter with only 4 buttons. 4 groups of 4 channels are easily programmed using combinations of the 4 buttons pressed together to select each group of 4 doors.

NOTE THAT IT IS IMPORTANT IN CONSIDERATION OF SAFETY THAT EACH DOOR IS PROGRAMMED TO AUTO-CLOSE TO ENSURE THAT AN INCORRECT BUTTON PRESS WILL NOT CLOSE THE WRONG DOOR.

DOOR CONTROL

It is anticipated that the remote control of each door will not affect the operation of another door on the same channel as each 5th door is likely to be out of operating range of the first door.

RECEIVER WIRING

Please refer to the instructions for the Amber Remote Control Receivers.

Although it is possible to connect each group of 4 doors to one receiver. It is preferable to install a separate single channel model 4221 receiver for each door as the receiver's position with its internal antenna will provide the optimum remote control operating range for each door.

The Normally Open (N/O) and COMMON relay contacts of each receiver channel should be wired to the related OPEN terminals of each door control unit as follows:
DOOR NUMBERS 1, 5, 9, 13 etc. to CHANNEL 1 N/O and COM TERMINALS

DOOR NUMBERS 2, 6, 10, 14 etc. to CHANNEL 2 N/O and COM TERMINALS

DOOR NUMBERS 3, 7, 11, 15 etc. to CHANNEL 3 N/O and COM TERMINALS

DOOR NUMBERS 4, 8, 12, 16 etc. to CHANNEL 4 N/O and COM TERMINALS
* Note that the relay contact terminals are all volt-free.

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*Note that the receiver model 4244 is shipped with all 4 DIP switches set to OFF for MOMENTARY operation.

TRANSMITTER CODE PROGRAMMING

Up to 30 transmitter codes can be programmed into each receiver's memory.

Locate the LEARN button on the receiver panel, which is next to the RED DIP switches.

1. Press and release the LEARN button
2. The RED LED LD2 will illuminate.
3. Press and release **any one** of the transmitter buttons.
4. The RED LD2 will turn off.
5. Press and release the same button a second time.
6. The RED LED LD1 will flicker for a few seconds to indicate that the programming is successful.

TRANSMITTER CODE ERASURE

1. Press and HOLD the LEARN button
2. The RED LED LD2 will illuminate for 8 seconds.
3. Release the LEARN button when the LED turns off.
4. The RED LED LD1 will illuminate for 2 seconds to confirm that all codes have been erased.

NOTES ON LIMITING THE OPERATING RANGE OF THE FORK LIFT TRUCK TRANSMITTER

If the operating range of the Fork Lift Truck Transmitter is found to be too high such that it opens Door 1 and 5 or 2 other doors together, then please recheck the operating range with the Receivers fitted in their final position in both door control units and ensure that the Transmitter is already fitted to the Fork Lift Truck in a fixed position, preferably on the engine cover at the right-hand side of the driver's seat, as the final position and location of both the Receivers and the Transmitter will affect the operating range.

If it is found that the problem of too great an operating range is still of a concern, it may be worth considering replacing the model 4244 Transmitter with our **patented model 4216,** which is a 16-channel transmitter – programmable through just 4 buttons producing 4 groups of 4 channels.