



TRANSMITTER
Only use approved chargers
WALL CHARGER (B20172A)
CAR CHARGER (B20173A)

OPERATION:

Press and hold the power button on the transmitter until both LEDs turn on, then release. The green LED will flash rapidly when communication has been established with the receiver. The LED flashes slowly if the receiver is off or there is no communication between the transmitter and receiver. Turn the receiver on and press the corresponding buttons on the transmitter keypad to turn on and off each of the outputs.

RECHARGING:

Plug the charging connector into the port at the top of the transmitter. Observe orientation and do not use force. A solid red LED indicates battery is charging. Once the internal battery is fully charged, the red LED will turn off and the green LED will turn on. A fully discharged unit will take up to 3 hours to recharge. Use only approved chargers.

INDICATOR LIGHTS:

The transmitter has two LED indicators, the red **BATTERY/DIAGNOSTIC** indicator and the green **TRANSMIT** indicator. The green **TRANSMIT** indicator flashes rapidly whenever there is communication between the transmitter and the receiver. The red **BATTERY/DIAGNOSTIC** indicator starts blinking once every second when the battery voltage is low and requires charging. It also blinks when there is a problem with the system in the form of an error code. Refer to the **ERROR CODE CHART** tables for more information.

*Note: To check for low battery, turn the receiver off and leave the transmitter on. If the transmitter red LED continues to blink, the battery is low and requires charging. If the red LED blinks only when the receiver is on, count the number of blinks and refer to the **ERROR CODE CHART** tables for additional information.*

Note: The red LED will stay on while charging and when the charge is completed the green LED will stay on.

Note: It will take longer to charge if the transmitter is on during charging.

TEACH ID CODE:

To synchronize a new transmitter and receiver together use the following procedure:

1. Remove receiver cover
2. Apply power to the receiver
3. Place a jumper across the TEACH ID jumper inside the receiver. Both green and red LEDs will toggle inside the receiver. Remove the jumper and store it on one pin
4. To get the transmitter into TEACH ID mode, press and hold the POWER button for 10 seconds.
5. Release the POWER button and wait for 1 second or until the green and red LEDs stop toggling in the receiver. Release the other buttons
6. Teach complete
7. Replace the cover on the receiver

Note: Button configuration and layout is customized to the customer's requirement.

SPECIFICATIONS:

Electrical:

RF Transmit power (EIRP): 10 mW
 RF Frequency: 902-928 MHz
 Power: 3.7V Lithium Polymer

Environmental:

Operation temperature: -20C to +60C
 IP Rating: 66
 Vibration: 3G to 200Hz

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by Kar-Tech will void the user's authority to operate the equipment.

KAR-TECH Delafield, WI 53018						IMPLIED TOLERANCE	
PROGRAMMABLE MICRO						XX	± .1
						XXX	± .05
CAD DRAWING DO NOT REVISE MANUALLY						FRACTIONAL	± 1/8
						ANGULAR	± 85 deg
SCALE	DRAW	DATE	DESIGN	APPROVED	DRAWING NO.		
FULL	H.K.	11-12-11			3A-259-1-A-3B		