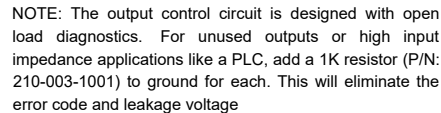


This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (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.

RECEIVER ERROR CODE CHART		TRANSMITTER ERROR CODE CHART	
ERROR CODE	PROBABLE CAUSE	ERROR CODE	PROBABLE CAUSE
1	RF COMMUNICATION PROBLEM	1	LOW BATTERY
2	FAULTY CIRCUIT TO OUTPUT 1	2	FAULTY CIRCUIT TO OUTPUT 1
3	FAULTY CIRCUIT TO OUTPUT 2	3	FAULTY CIRCUIT TO OUTPUT 2
4	FAULTY CIRCUIT TO OUTPUT 3	4	FAULTY CIRCUIT TO OUTPUT 3
5	FAULTY CIRCUIT TO OUTPUT 4	5	FAULTY CIRCUIT TO OUTPUT 4



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

1. Turn both transmitter and receiver off
2. To get the transmitter into TEACH ID mode, press and hold the POWER button for 10 seconds. Both LEDs start blinking.
3. Turn on the receiver

On older models, Place a jumper across the TEACH ID jumper inside the receiver. The green LED will go from blinking to steady. Remove the jumper and store it on one pin

4. Teach complete

CLONING TRANSMITTERS

WARNING! - ONLY ONE TRANSMITTER CAN BE ON AT A TIME, THEY CANNOT BE USED SIMULTANEOUSLY - use with CAUTION!

Occasionally, it is desirable to have more than one transmitter work with a single receiver. This is accomplished by a process called cloning. Cloning allows an additional transmitter (B) to have the same ID code as the original transmitter (A). If this feature is desired, use the following procedure:

1. Make sure both transmitters and the receiver are off
2. On Transmitter A, press and hold POWER buttons for more than 10 seconds until both LEDs start blinking then release POWER button.
3. On Transmitter B, press and hold buttons 1, 2 and POWER button simultaneously until both LEDs start toggling then release buttons
4. Wait for ~1 seconds until both LEDs stop blinking on both units.
5. Cloning complete

CHANGE ID/ UN-CLONING TRANSMITTERS

If the cloning feature has been invoked and is no longer desired, the ID code of one of the transmitters needs to be changed. This will unclone the transmitters. If this is desired, use the following procedure:

1. Make sure the receiver and transmitter are OFF
2. For 5 button transmitters, press and hold buttons 2, 3, 5 and POWER simultaneously until both LEDs start toggling then release buttons
- For 4 button transmitters, press and hold buttons 2, 3 and POWER simultaneously until both LEDs start toggling then release buttons
- For 3 button transmitters, press and hold buttons 1, 2, 3 and POWER simultaneously until both LEDs start toggling then release buttons
3. Press any button again to select a new ID
4. uncloning complete
5. Follow the SYNCHRONIZING TRANSMITTER AND RECEIVER procedure above to link the uncloned transmitter to a new receiver

A five or eight button transmitter is required to perform the following procedure.

1. Turn the receiver off. Turn the transmitter on (press and hold POWER until both LEDs turn on, then release)
2. Press and hold 1, 4, and 5 and release on 5 button transmitter or 1, 3, and 4 and release on 4 button transmitter. Red LED should be blinking on the transmitter
3. Turn the receiver on. Be sure all outputs are connected to a load and that there are no error codes present (NOTE: outputs may cycle on and off while programming)
4. Are any outputs to be latched (push on/push off)? If yes, continue. If no, skip to step 6
5. One at a time, press and hold each button 1-4 corresponding to output 1-4 that is to be latched, until the green LED goes on, then off
6. Press POWER briefly. The receiver red LED should blink 4 times, indicating acceptance
7. Are any outputs to be disabled (no output and no error code)? If yes, continue, if no, skip to step 9
8. One at a time, press and hold each button 1-4 corresponding to output 1-4 that is to be disabled, until the green LED goes on, then off
9. Press POWER briefly. The receiver red LED should blink 4 times, indicating acceptance
10. Is it desired to use the pump or e-stop functionality (see descriptions below)? If yes, continue, if no, skip to step 15
11. To engage the pump functionality, press button 1 until the green LED goes on, then off. Alternatively, to engage the e-stop functionality, press button 2 until the green LED goes on, then off
12. Press POWER briefly. The receiver red LED should blink 4 times, indicating acceptance
13. If e-stop functionality was chosen, skip to step 16. If pump functionality was chosen, continue
14. One at a time, press and hold each button 1-3 corresponding to output 1-3 that is to be associated with the pump output, until the green LED goes on, then off
15. Press POWER briefly. The receiver red LED should blink 4 times, indicating acceptance
16. Turn receiver off, then on again. Programming complete

1. When using Pump or E-Stop functionality, do not disable output 4
2. Pump functionality: output 4 will turn on with any outputs that have been associated with it
3. E-stop functionality: output 4 will be on as long as the transmitter is on. If the transmitter is turned off, POWER is pressed, or it goes out of range, output 4 will go off along with all latched outputs. Turn the transmitter back on and re-engage outputs to continue
4. If pump or e-stop functionality is chosen, output 4 will be used for this. Button 4 on the transmitter will then have no function. A maximum of 3 outputs can be controlled with the transmitter buttons
5. If 4 blinks after each sequence is not seen as described above, the programming was not accepted for that section. Start from the beginning and go slowly. Keep a distance of 2-3 feet from the receiver when programming

The transmitter is factory set to turn off (sleep) after 15 minutes. To change the time the transmitter waits before going to sleep, use the following procedure:

SPECIFICATIONS:

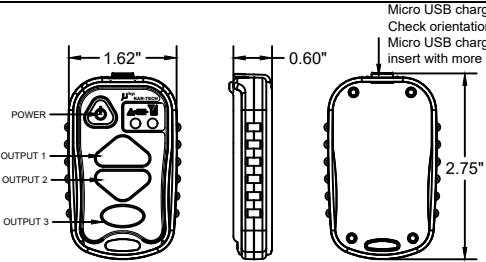
Electrical:

- RF Transmit power (EIRP): 10 mW
- RF Frequency: 902-928 MHz
- Transmitter:
 - Power: Rechargeable 3.7V Lithium Polymer or AAA Alkaline battery
 - Operation time: 30 to 40 hours continuous
- Receiver:
 - Power: 9 to 30 Volts DC
 - Outputs: 5A max each (20A system max)

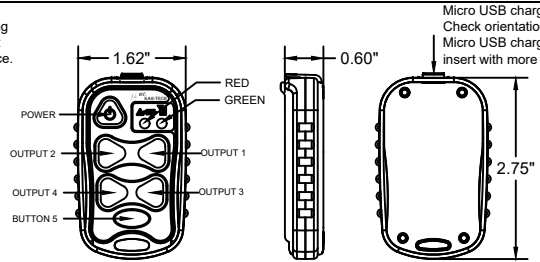
Environmental:

- Transmitter: -20C to +60C
- Receiver: -40C to +85C
- Vibration: 3G to 200Hz

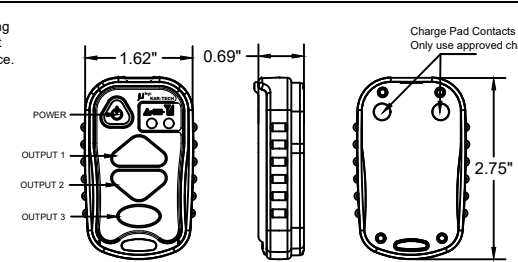
<div style="text-align: center;"> KAR-TECH Delafield, WI 53018 </div>					IMPLIED TOLERANCE XX * .1 XXX * .06 XXXX * .015 FRACTIONAL * 1/8 ANGULAR * 1/2	
TITLE SALES KIT, MICRO, PROGRAMMABLE, 4 FUNCTION						
CAD DRAWING DO NOT REVISE MANUALLY						
SCALE	DRAWN	DATE	CHECKED	APPROVED	DRAWING NO.	
FULL	BG	11-03-23				3A-091-4-D-3



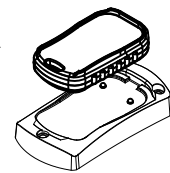
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TRANSMITTER, MICRO, 3 BUTTON.
MICRO USB CHARGING



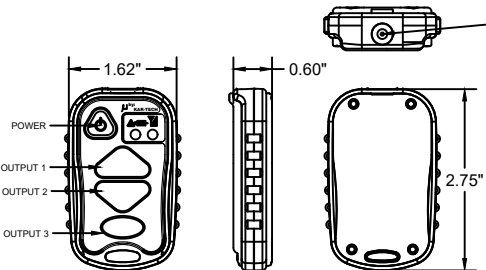
P/N: 3A2033C
TRANSMITTER, MICRO, 5 BUTTON.
MICRO USB CHARGING



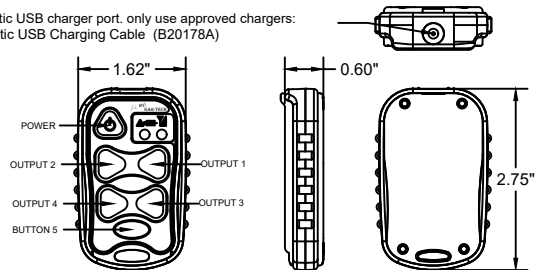
P/N: 3A3376B
TRANSMITTER, MICRO, 3 BUTTON,
MAGNETIC CHARGE PAD



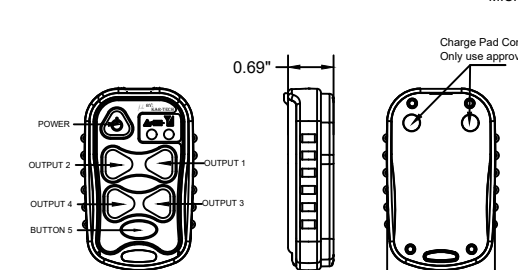
Only use approved chargers
MICRO WALL CHARGE PAD/ 110-240VAC (B20243A)
MICRO CAR CHARGE PAD/ 12-24VDC (B20242A)



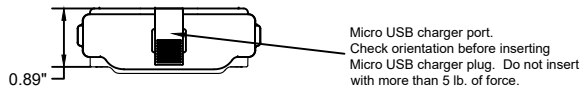
P/N: 3A203DA
TRANSMITTER, MICRO, 3 BUTTON.
MAGNETIC USB CHARGING



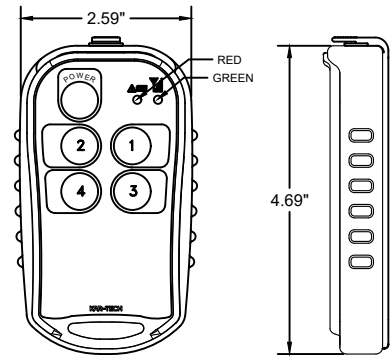
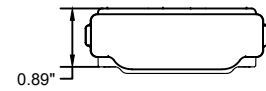
P/N: 3A203CA
TRANSMITTER, MICRO, 5 BUTTON.
MAGNETIC USB CHARGING



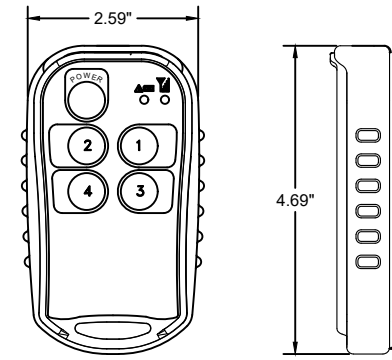
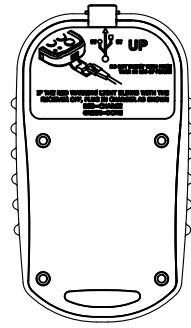
P/N: 3A3373B
TRANSMITTER, MICRO, 5 BUTTON,
MAGNETIC CHARGE PAD



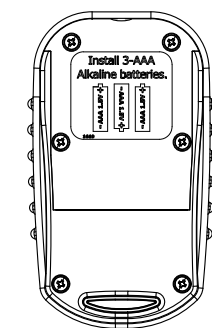
Micro USB charger port.
Check orientation before inserting
Micro USB charger plug. Do not insert
with more than 5 lb. of force.



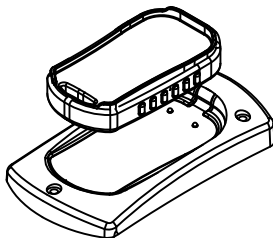
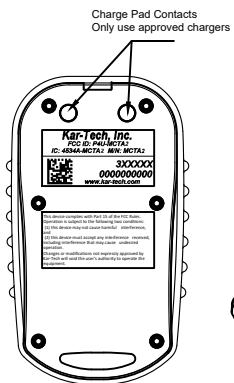
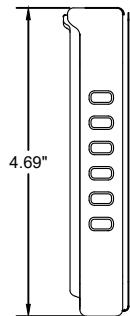
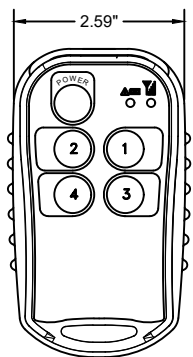
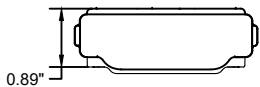
P/N: 3A2416C
TRANSMITTER, MACRO, 4 BUTTON.
MAGNETIC USB CHARGING



P/N: 3A4016B
TRANSMITTER, MACRO, 4 BUTTON.
AAA BATTERY

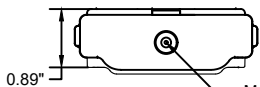


P/N: B20178A
MAGNETIC USB CHARGING CABLE

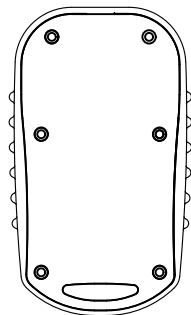
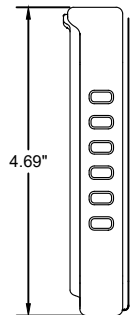
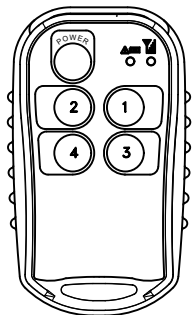


P/N: 3A2986B
TRANSMITTER, MACRO, 4 BUTTON,
MAGNETIC CHANGE PAD

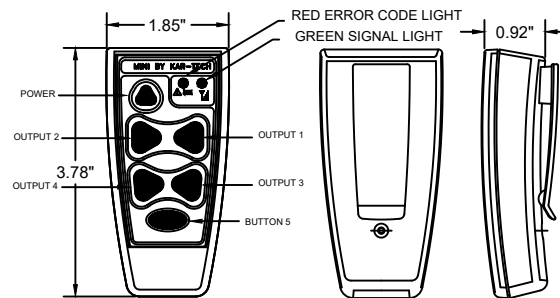
Only use approved chargers
MACRO CHARGER PAD/ 110-240VAC (B20203A)
MACRO CAR CHARGER PAD/ 12-24VDC (B20202A)



Magnetic USB charger port. only use approved chargers:
Magnetic USB Charging Cable (B20178A)



P/N: 3A241HA
TRANSMITTER, MACRO, 4 BUTTON,
MAGNETIC USB CHARGING



Uses 2 AAA Alkaline
batteries.
Optional remote cover with
lanyard
(P/N:062-010-0145)

P/N: 3A0912D
TRANSMITTER, MINI, 5 BUTTON, AAA
BATTERY