



STYLE 3600 WIRELESS REMOTE CONTROL INSTALLATION AND OPERATING INSTRUCTIONS

The following is intended to provide the basic instructions for installation and operation of the Wireless Remote Control (WRC), and to assist in attaining the best possible performance from the unit. Read and understand these operating instructions before use.

TOOLS REQUIRED

- Medium Phillips screwdriver
- Small flat screwdriver

PRODUCT WARNINGS

- ⚠WARNING: For fire fighting use only by trained fire fighters.
- ⚠WARNING: Although the enclosures for the controller and receiver are water-resistant, it is important to keep water out of the enclosure. Prolonged exposure to water will cause damage. When the cover of the enclosure is removed, make sure the O-ring under the cover is intact and free of dirt and debris.
- ⚠WARNING: Do not use the WRC when the override cranks are being used or are in position for use.
- ⚠WARNING: Replace the identification tags if they should become worn or damaged.
- ⚠WARNING: Do not stow the monitor when flowing water

PRODUCT SPECIFICATIONS

Handheld Controller

- Input power Two – 1.5v Lithium AA batteries*
- Battery life 20 continuous hours
- Output power Meets FCC part 15 requirement for license free operation
- Controller dimensions 6 1/4" x 3 1/2" x 13/4"
- Controller weight 3/4 lb
- Operating temperature range -40°F to 140°F (-40°C to 60°C)
- Controller power 1mW
- Operating Frequency 2.4GHz or 900MHz (see label for frequency)
- FCC ID OUR-XBEE
- Range 500 ft

NOTE: Enclosing the receiver in a compartment or behind the pump panel will reduce the effective range.

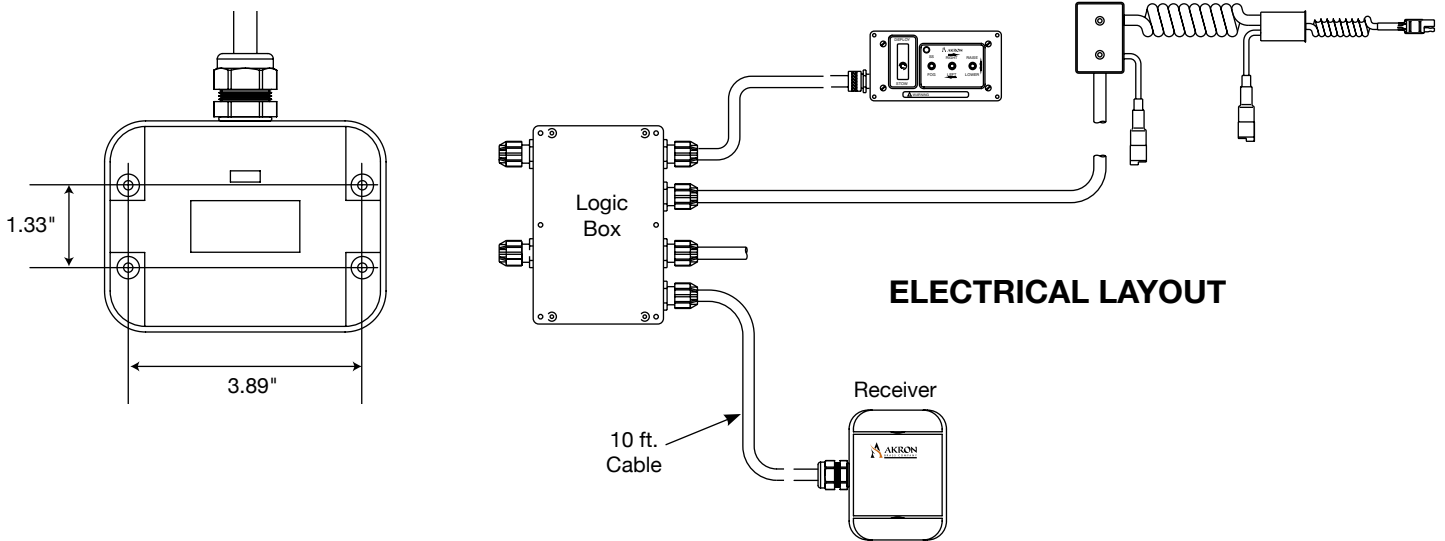
Receiver

- Input power 12 or 24 VDC
- Receiver dimensions 4 1/2" x 3 1/2" x 2"
- Receiver weight 1/2 lb
- Operating temperature range -40°F to 140°F (-40°C to 60°C)
- Receiver power 100mW
- Operating Frequency 2.4GHz 900MHz (see label for frequency)
- FCC ID OUR-XBEE
- Security Code 64 bit code from serial number of module

*Early models used one CR123 or equivalent Lithium Battery

MECHANICAL ATTACHMENT OF RECEIVER

Below are the mounting hole dimensions for the receiver. Mount the receiver to allow enough cable for proper installation to the Logic Box (See Electrical Layout). The receiver will come with a 10ft. cable.



ELECTRICAL INSTALLATION OF RECEIVER

The following is the wiring chart for the Receiver to the Logic Box. These color-coded wires should be wired into the input side of the Logic Box (TB1). The +V (power) and -V (ground) can be wired into TB2.

RECEIVER WIRE COLORS	TERMINAL POSITION IN LOGIC BOX	
WHITE	+V 12/24V POWER	TB1#10
WHITE/BLACK	-V GROUND	TB3#15
GRAY	LED	TB3#8**
WHITE/RED	AUX	*
BLACK	RIGHT	TB1#6
RED	LEFT	TB1#5
BLUE	DOWN	TB1#4
GREEN	UP	TB1#3
YELLOW	STREAM	TB1#2
BROWN	FOG	TB1#1
ORANGE	STOW (USED ONLY FOR SIT)	TB1#21
PURPLE	DEPLOY (USED ONLY FOR SIT)	TB1#22

* The Aux button can be used for Stow, Deploy or Oscillation if available on the monitor. Wire the white/red wire into the corresponding terminal requested by customer for the appropriate function. See monitor operating instructions (or Logic Box Lid) for wiring diagram and terminal location. ** Run jumper wire from TB3#7 to TB3#3 to have the Aux LED on the handheld controller indicate if the monitor is stowed or deployed.

- Aux LED ON - Deployed
- Aux LED OFF - Stowed

SYNCHRONIZE HANDHELD CONTROLLER WITH RECEIVER

- Before initial operation can occur, the Handheld Controller must be synchronized with the Receiver. This allows proper communication between the two and ensures that the handheld Controller will only control the operation of one Receiver. Synchronization is performed only once when the system is put into operation for the first time or if it becomes desirable to synchronize the Handheld Controller with a different Receiver. An unsynchronized Handheld will flash all LED's in unison when it is turned on. This will continue for approximately 20 seconds at which time the unit will power down. New Handheld controllers are shipped unsynchronized.

1. Make sure only the intended Receiver module is powered on. If multiple Receivers are powered, the Handheld unit will synchronize with the Receiver which returns the strongest signal. Normally this is the Receiver and any shielding or reflective material may occasionally cause nearby Receiver to return a weak signal.
2. Starting a synchronize procedure can only be done at power up with the Handheld unit. The Handheld unit cannot be made to request a synchronization once it has started its normal operation.
3. In an attempt to prevent unwanted synchronizing, the key strokes required to initiate synchronizing have a time limit. Once the time limit has passed, the Handheld unit must be powered off before a new synchronization can be started.
4. To synchronize a Handheld unit with a Receiver, follow the steps below:
5. Hold the AUX button down while powering up the Handheld unit. The Handheld unit is powered up by briefly pushing and releasing the Power ON/OFF button. Release the AUX button anytime after the green On/Off/Transmit LED comes on.
6. Within the next 3 seconds push and release the AUX button again. After a short delay the Handheld unit will start sending requests to the Receiver for a serial number. Up to 6 requests will be made while the Handheld listens for any Receivers in the vicinity. The Handheld will then flash all LED's once for each Receiver which responded to the Handheld. The Handheld will then select the Receiver with the strongest signal.
7. If a new Handheld unit continues to flash all LED's in unison after an attempt is made to synchronize it to a Receiver, the synchronization attempt was unsuccessful. This is usually due to improperly implementing the synchronization sequence of button pushes. Simply turn the Handheld off and try again.
8. If a Handheld unit is not new and has been previously synchronized to a Receiver, it can be synchronized to a different Receiver if desired. In this case the synchronization to the old Receiver is lost when the synchronization to the new Receiver is established. If synchronization fails, the handheld unit will return to blinking all LED's in unison.

OPERATING INSTRUCTIONS

A. HANDHELD CONTROLLER OPERATION

The Handheld controller is used to control the monitor and nozzle.

1. To change the horizontal monitor position toward the right or left:

Press the proper button "RIGHT" or "LEFT" respectively, as labeled on the controller, until the desired position is reached.

2. To change the vertical monitor nozzle position upward or downward:

Press the proper button "RAISE" or "LOWER" respectively, as labeled on the controller, until the desired position is reached.

3. To change the nozzle pattern toward the straight stream or fog position:

Press the proper button "STRAIGHT" or "FOG" respectively, as labeled on the controller, until the desired nozzle position is reached.

4. The AUX button can be used for an Stow, Deploy or Oscillation depending on the electrical installation of the AUX wire in the logic box. (See Electrical Installation of Receiver)

5. The AUX LED is a status LED reporting the state of the signal at TB1#9 in the Logic Box. It is updated when the Handheld unit is powered up but thereafter only when the Handheld is moving the monitor or nozzle. The AUX LED is also updated for 20 seconds after the AUX button is released. The green On/Off/Transmit LED will continue to flash during the 20 seconds that the Handheld is updating the AUX LED.

B. POWER DOWN

The controller will automatically power down after 5 minutes of non-activity to conserve battery life.

C. LOW BATTERY

The ON/OFF transmit LED on the Handheld will turn red with approximately 2 hours of continuous transmission time remaining before the battery(s) are completely discharged. There is a transition period in which the LED will alternate between red and green as the battery voltage slowly falls.

D. BATTERY REPLACEMENT

For units with two 1.5V AA Lithium batteries, remove the battery cover on the rear of the controller and remove the old batteries. Replace with new batteries and replace the battery cover. Be sure to observe the polarity markings in the battery compartment. In an emergency, normal 1.5V AA alkaline batteries can be used to power the controller for several hours of continuous use.

For single battery Handheld units, remove the four screws on the back of the Handheld and carefully remove the back cover. It maybe necessary to use a small screw driver to remove the battery from its holder. Be careful to not damage any components on the circuit board during battery replacement.

E. BACKLIGHT

The controller is equipped with a backlight to illuminate the buttons when visibility is limited. The backlight will turn off after 30 seconds of non-activity. Press any button to turn the backlight back on.



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