

**AK SERIES ARCHITECTURAL REMOTE STATION**

Version 0.1

**OWNERS MANUAL**

12/08/2020

**GENERAL DESCRIPTION**

AK Series remote units are wall mounted, multiscene remotes for use with the Lightronics LitNet architectural control system. The LitNet host units consist of the AR and AB series of architectural dimmers, the RA rack mount dimmers and the SR & SC architectural controllers. Each button activates a complete lighting scene. LED indicators show which scene is active.

There are currently three models available:

<b>AK1005</b>	<b>5 Scenes</b>
<b>AK1003</b>	<b>3 Scenes</b>
<b>AK1002</b>	<b>2 Scenes</b>

AK Series units fit into a standard single gang wall switch boxes. They communicate on LitNet via a four wire bus which will accommodate several remotes and other controls. All LitNet wiring is low voltage.

The units generally operate in an exclusive mode where only one scene can be active at a time. Each scene may be toggled on and off. When a scene is selected, the lighting circuits fade, at a user controlled rate, to the setting for that scene.

Scenes activated by these remotes are actually set up and stored in the LitNet host. The remotes only tell the host which scene(s) to activate.

**INSTALLATION****CAUTION**

Remove all power from the LitNet host(s) before making connections

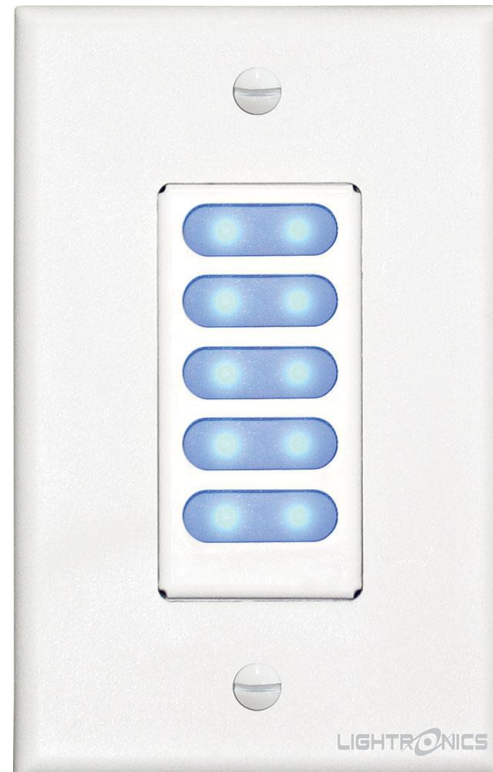
AK Series units connect to the host via a shielded 4 conductor cable arranged as 2 twisted pairs. One pair connects to the DATA - and DATA + signals. The other pair carries the common and power.

Ensure the unit is installed with the connector in the bottom left hand side which results in button # 1 being at the top of the remote.

See the diagram "CONNECTOR WIRING" for details.

**SINGLE UNIT:** Connect the 4 cable wires to the screw down terminals on the back of the unit. Connect the cable shield to the REMOTE COMMON terminal.

AK1005



The other end of the cable connects to the host by different methods. Refer to the respective host product Owner's Manual for complete wiring details.

**MULTIPLE UNITS:** Follow the instructions for a single unit for the first AK Series remote. Connect the terminals of the second unit to the corresponding terminals of the of the first unit (create a "daisy chain").

Additional units can be added in the same manner.

Do not make multiple "home runs" to the host or create a "star network".

**OPERATION**

No setup or turn on procedure is needed. When the LitNet host is powered on, the AK1005 will also be powered. If communication with the LitNet host cannot be established, an AK1005 will appear to be repeatedly scanning through all scenes.

Scenes to be activated by an AK1005 must have already been created and stored in the LitNet host. See the host product Owner's Manual for instruction on programming scenes.

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If a scene is activated from an “OFF” condition, then the selected scene LED indicator will light. Pressing that scene button again will deactivate the scene.

If a scene is active and a new scene is selected which is identical with no intensity changes occurring between scenes, then both scene indicators will remain lit.

If a scene is selected which involves any change in intensity of any channel, then the current scene and LED indicator will go off and the new scene will be active and the LED indicator will light.

If the LitNet host is an SR or SC architectural controller, then the Mutual Exclusive Group settings of the host will control how the remotes will react when multiple scenes are selected.

AK Series remotes are used with scenes starting at scene one (the top button). The remaining buttons use the next consecutive numbered scenes. If multiple host units are used, they will ALL use scenes starting at scene one.

It is possible to make AK Series remotes operate with other scenes but the unit should be ordered with special factory programming to do so.

**MAINTENANCE AND REPAIR**

**TROUBLESHOOTING**

1. Check cables and the connections at both ends.
2. If the unit is being used with multiple LitNet hosts - ensure that one (and only one) of the hosts is set to UNIT ADDRESS 00

**OWNER MAINTENANCE**

There are no user serviceable parts in the unit. Service by other than Lightronics authorized agents will void your warranty.

**OPERATING AND MAINTENANCE ASSISTANCE**

Dealer and Lightronics Factory personnel can help you with operation or maintenance problems. Please read the applicable parts of this manual before calling for assistance.

If service is required - contact the dealer from whom you purchased the unit or contact the Lightronics, Service Dept..

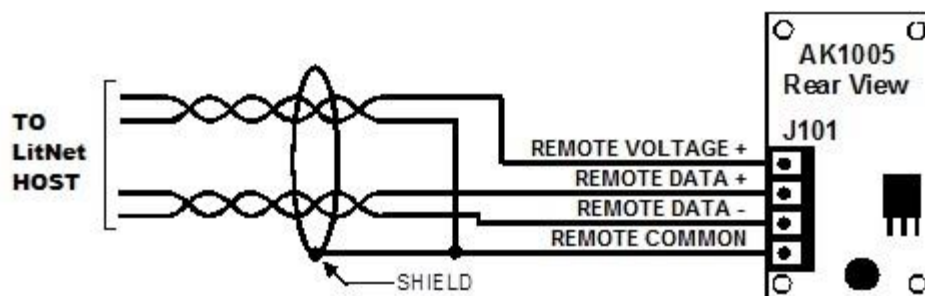
**AK1002**



**AK1003**



**CONNECTOR WIRING**



The banner features the Lightronics logo on the left and right, with the word "WARRANTY" in large, bold, white capital letters centered on a dark grey background.

LIGHTRONICS LIGHTRONICS

# WARRANTY

All Lightronics products are warranted for a period of TWO/FIVE YEARS from the date of purchase against defects in materials and workmanship.

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This warranty is subject to the following restrictions and conditions:

- A) If service is required, you may be asked to provide proof of purchase from an authorized Lightronics dealer.
- B) The FIVE YEAR WARRANTY is only valid if the warranty card is returned to Lightronics accompanied with a copy of the original receipt of purchase within 30 DAYS of the purchase date, if not then the TWO YEAR WARRANTY applies. Warranty is valid only for the original purchaser of the unit.
- C) This warranty does not apply to damage resulting from abuse, misuse, accidents, shipping, and repairs or modifications by anyone other than an authorized Lightronics service representative.
- D) This warranty is void if the serial number is removed, altered or defaced.
- E) This warranty does not cover loss or damage, direct or indirect arising from the use or inability to use this product.
- F) Lightronics reserves the right to make any changes, modifications, or updates as deemed appropriate by Lightronics to products returned for service. Such changes may be made without prior notification to the user and without incurring any responsibility or liability for modifications or changes to equipment previously supplied. Lightronics is not responsible for supplying new equipment in accordance with any earlier specifications.
- G) This warranty is the only warranty either expressed, implied, or statutory, upon which the equipment is purchased. No representatives, dealers or any of their agents are authorized to make any warranties, guarantees, or representations other than expressly stated herein.
- H) This warranty does not cover the cost of shipping products to or from Lightronics for service.
- I) Lightronics Inc. reserves the right to make changes as deemed necessary to this warranty without prior notification.