
AEXX-489 SERIES
BCD DISPLAYS

AEXX-489 SERIES – BCD DISPLAYS
REV 05/15/01

DESCRIPTION

AEXX-489 Series BCD Displays convert BCD data supplied by equipment such as PLC's or thumbwheel switches into seven-segment LED display information. Versions are available in 2, 3, 4, 5 and 6 digit configurations, with 1", 2.3", 4", 8", or 12" high digits, visible from 5 feet to 500 feet away.

This manual covers all AE Series displays from two digits to six digits, including two-sided versions with the BCD Display option (489) installed. To simplify the manual the term "AE Device" may be used to cover any of the specific models.

The model numbers of the AEXX-489 Series are derived from the digit size and the number of digits in the display, followed by the 489 suffix. For example the AE24-489 is 2.3 inch, four-digit display and the AE126-489 is a twelve-inch, six-digit display. For two-sided versions, the model number would have /2. For example: AE84/2-489 would be the model number for a Two-Sided, Eight Inch, Four Digit, BCD Display. Each AE Display can be configured in a number of ways. Some will have different enclosures including wall mount, rack mount, two sided wall or ceiling mount, and NEMA type enclosures for all applications. For your specific model number and hardware configuration refer to the drawings at the back of this manual.

The AE Series BCD Displays are configured from standard modules to provide specific size, number of digits, color, brightness, enclosure type, mounting, wiring, and power requirements.

See drawing at the back of this manual for your specific configuration.

AEXX-489 SERIES – BCD DISPLAYS
REV 05/15/01

SPECIFICATIONS

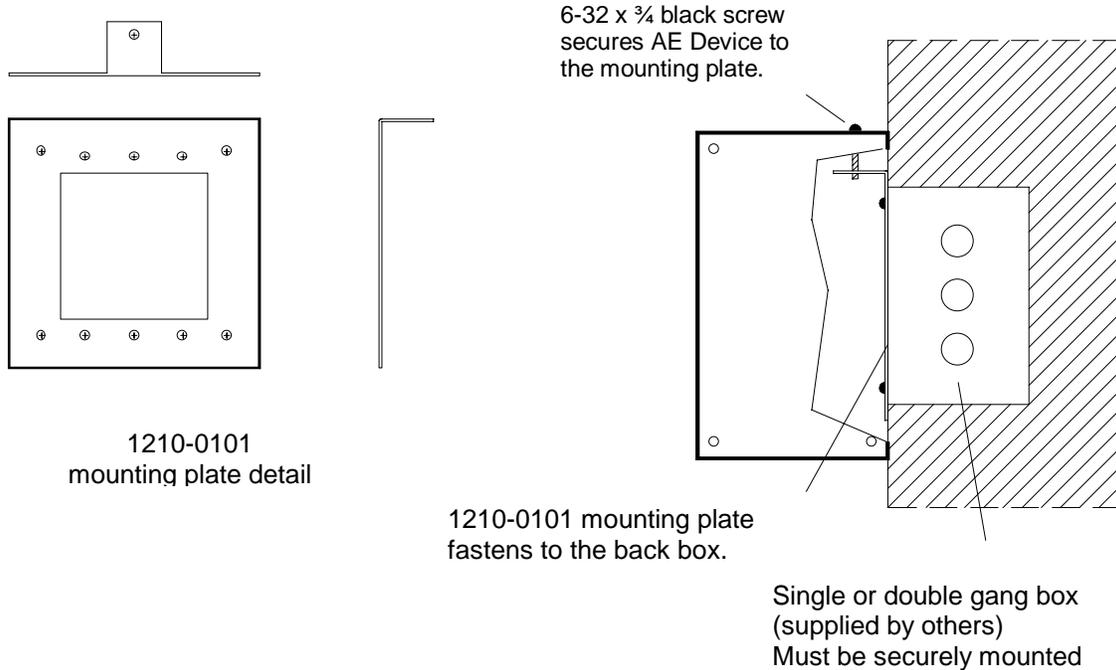
- Digits: 1, 2,3, 4, 8 and 12 Inch High, Seven Segment Digits are available.
- Number of Digits: Models are available with 2, 3, 4, 5 or 6 digits depending on the digit size ordered. For additional digit specifications, see the drawings at the back of this manual for your specific model.
- BCD Inputs: Up to six, full parallel, negative true digit inputs (six digits) are available. Each bit has a 100K ohm input impedance 28VDC Maximum.
- Function: Converts incoming parallel, BCD data to seven-segment LED display information. Negative true logic. Bits are arranged 8, 4, 2, 1.
- 1111 through 0110 will display "0 through 9, respectively. Other characters are as follows:
- | | |
|------|-----------------------|
| 0101 | will display "A" |
| 0100 | will display "b" |
| 0011 | will display "C" |
| 0010 | will display "d" |
| 0001 | will display "E" |
| 0000 | will display " blank" |
- Power: 120 VAC power is standard. The power required varies with the size and number of digits. Optional power includes 50 HZ, 12 VAC, 12 to 15 VDC and 220 VAC.
- Operating Temperature: 0 to 50 Degrees C
- Enclosure: Black anodized aluminum with .118" thick red acrylic lens. The back panel is .125" thick black, ABS plastic. The size varies with the size and number of digits. See the drawings at the back of this manual.
- A 1210-0101 mounting bracket is provided for wall mounting to a single or double gang box. Optional enclosures are available.
- Wiring: Clearly-labeled, pigtail lead wires (#18 AWG) are provided for the power. Each digit pair has a clearly-labeled, color coded, (9) conductor cable for the BCD inputs. Optional terminal blocks, power cords, and connectors are available on some models.
- Options: There are numerous options available for the AEXX-489 Series BCD Display. Some include: (/2) Two Sided Version, (348) Master/Driver Output, and (PC8) Add 8 FT. Power Cord. When options are ordered, supplemental information is provided with addenda and additional drawings.

For all other options refer to the drawings at the back of this manual for additional specifications.

INSTALLATION

MOUNTING

The AE Series Displays can be mounted in a variety of ways. Things to consider for mounting include ambient light, viewing area, ambient temperature, dirt or dust. Most models are supplied with one or more 1210-0101 mounting brackets for wall mounting to a single or double gang box. See the detail below. For other mounting options, such as ceiling mounts or double-sided mounts, refer to the specific drawings.



WIRING

There are many wiring configurations for the AEXX Series Remote Displays, depending on the functions used and the options installed. On most units the AC power has been pre-wired and clearly labeled pigtail leads are provided at the back panel for termination in a single or double gang box as shown above. Some models come with AC power cords or 12 VAC power modules. These can be plugged into a standard 120 VAC outlet. For any other power configurations, refer to the specific wiring diagrams provided.

On most standard units, clearly labeled pigtail leads wires are provided for the power at the back panel of the unit. Clearly labeled, (9) conductor cables are provided for the BCD inputs for each digit pair. They are available at the back panel for termination in single or double gang box as shown above. A four-digit display will have two cables. For any other signal configurations, refer to the specific wiring diagrams provided at the back of this manual.

OPERATION

After all wiring is complete, apply power to the unit. The displays will rotate during the power on self-test and then a version number will appear for a few seconds. The display will then show the BCD value of the incoming data for each digit.

TECHNICAL SUPPORT

For any questions concerning installation and operation of this product, contact our factory at:

PHONE (800) 444-7161
OR
FAX (318) 797-4864

SERVICE POLICY

It is recommended that all service for this product be done by the factory or by a factory authorized service representative. Applied Technical Systems will provide ongoing service support in and out of warranty. Send your repairs to:

APPLIED TECHNICAL SYSTEMS
815 KING PLACE
SHREVEPORT, LA 71115

APPLIED TECHNICAL SYSTEMS
WARRANTY POLICY

ATS warrants its products to be free of defects in material and workmanship for a period of 24 months from the date of purchase. ATS will repair or replace any product returned to its authorized factory service center within the warranty period so long as there is no evidence that the product has been abused, misused, damaged by lightning, overloads of any kind or water, or altered in any way.

Products returned for warranty must be returned with freight prepaid. ATS will pay normal freight charges to return the product to the customer. Special premium freight requested by the customer will be charged to the customer.

ATS disclaims any warranties expressed or implied, including merchantability and/or fitness for a particular purpose. In no event shall ATS be held liable for incidental or consequential damages.