
AEXX-267 SERIES
COUNT UP - ELAPSED TIMERS
(HUNDREDTHS OF SECONDS)

**AEXX-267 SERIES COUNT UP – ELAPSED TIMERS (HUNDREDTHS OF SECONDS)
REV 02/13/02**

DESCRIPTION

AEXX-267 Series Count Up - Elapsed Timers can count elapsed time in hundredths of seconds. They are available in 2, 4 and 6 digit versions and with 1", 2.3", 4", 8", or 12" high digits, visible from 5 feet to 500 feet away. The Count Up –Elapsed Timers can count up indefinitely to the maximum digit value at which time they roll over and continue to count. They can be configured to display any combination of MM:SS.TH. For example: a four digit model could be set up to display M:SS.T which would be one digit for minutes, two for seconds and one for tenths of seconds.

This manual covers all AE Series displays from two digits to six digits, including two-sided versions with the Count Up Elapsed Timer option (267) installed. To simplify the manual the term's "timer", or "AE Device" may be used to cover any of the specific models.

The model numbers of the AEXX-267 Series are derived from the digit size and the number of digits in the display, followed by the 267 suffix. For example the AE24-267 is 2.3 inch, four-digit display and the AE126-267 is a twelve-inch, six-digit display. For two-sided versions, the model number would have /2. For example: AE84/2-267 would be the model number for a Two-Sided, Eight Inch, Four Digit, Count Up – Elapsed Timer. 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.

For multiple display system the Master/Driver Option (348) can be added. This option allows you to connect up to 40 remote displays to the AEXX-267 Series Count Up - Elapsed Timer for displaying the same elapsed time in many locations.

The AE Series Count Up - Elapsed Timers are configured from standard modules to provide specific size, number of digits, color, brightness, enclosure type, mounting, wiring, and power requirements.

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

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SPECIFICATIONS

Digits:	1, 2.3, 4, 8 and 12 Inch High, Seven Segment Digits are available. For additional digit specifications, see the drawings at the back of this manual for your specific model.
Number of Digits:	Models are available with 2, 4 or 6 digits. Six digit models are set up to count hours, minutes and seconds. Two and four digit versions can be set up for the specified units. See the drawings at the back of this manual for your specific model.
Function:	Counts up elapsed time in minutes, seconds and hundredths of seconds (MM:SS:TH). Counts up indefinitely to the maximum value at which time it will roll over and continue to count.
Controls:	Standard units are intended for use with external <u>dry contact</u> , controls, which are provided by the user. Optional Built-in or Remote Switch Panels are available for setting and controlling the timers. They can be mounted up to 30 feet away. See the wiring diagram at the back of this manual. The elapsed timer can be started, stopped, resumed and reset from the user provided controls or the optional switch panels.
Power:	120 VAC – 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.
Accuracy:	Synchronous with the AC power line when power is applied. On battery backup a 0.005% crystal time base is used. Operating temperature is 0 to 50 Degrees C.
Battery standby:	Self-charging, 9V Ni-Cad.
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. <u>Optional enclosures are available.</u>
Wiring:	Clearly labeled, pigtail lead wires (#18 AWG) are provided. Optional terminal blocks, power cords, and connectors are available.
Options:	There are numerous options available for the AEXX-267 Series Count Up - Elapsed Timer. 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.

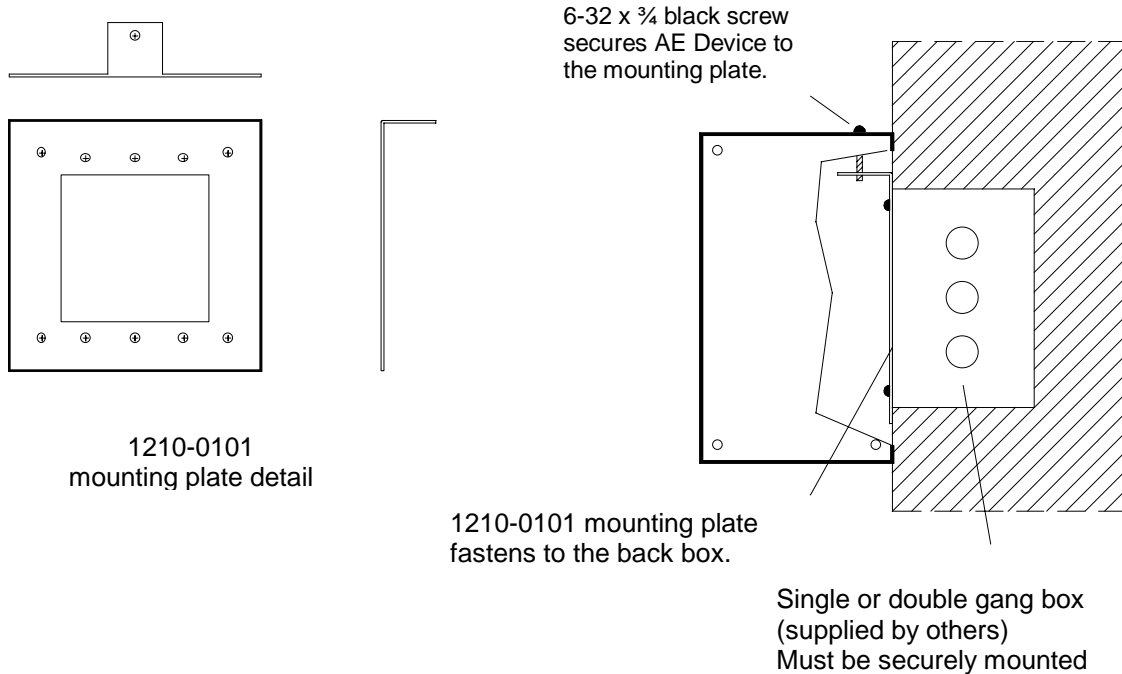
For all other options refer to the drawings at the back of this manual for additional specifications.

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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 Timers, 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. Additional pigtail leads are provided for the Start/Stop and Reset controls. For other options such as the 2101 or 2102 Remote Switch Panel, refer to the addendum sheets provided for that option. Also, see the wiring diagrams for more detail at the back of this manual.

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OPERATION

Before applying power, be sure all wiring is completed. 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 timer will display all zeros. If a charged battery is installed, the self-test will be bypassed.

UP COUNTER ELAPSED TIME OPERATION

Press RESET or apply the RESET signal to display all zeros. Press the START/STOP or apply the START/STOP signal to begin counting elapsed time. Press the START/STOP again to stop and hold the count. Press the START/STOP again to resume elapsed time counting. To start over press RESET to display all zeros again.

See the attached wiring diagrams for more detail on the START/STOP and RESET wiring.

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.