

# APPLICATION NOTE

AN514-01

## ***POPULATION COUNTER USING THE AEXX-514 SERIES LARGE DISPLAYS***

Display up to 12 digits of population count, up to 500 feet away.  
Preset Current Population and Growth Rate using your computer and  
"AE Pace" Software, via a standard RS232 serial port.

AE Series Displays with the Computer Controlled Pace Counter Option ( 514) can be used for population growth applications such as for monitoring the growth of the world population, certain animal species population, etc.

A wide variety of displays is available to meet most any display requirement, ranging from 2 digits up to 12 digits. Digit are available in 1", 2.3", 4", 8" and 12" high sizes

AEXX-514 Series Large Displays are controlled from your computer. A software program is required for presetting the current population and for setting the current population growth rate. Once programmed the display runs on its own until the next update from the computer is required.

"AE Pace" Software is provided with the AEXX-514 Series Displays, but users' may wish to create their own control programs. "AE Pace" Software is easy to use. Menus and scroll bars are provided for selecting the current population, the current population growth rate, the comm port your computer will be using, and the choice of leading zero blanking or not.

"AE Pace" Software sends the following 18-byte message to the display:

- BYte 0: Start Character - An 11H is required to establish communications.
- Byte 1: Address Byte - Requires a binary 0 - all call.
- Byte 2: Function Byte - Requires a Binary 7 - Preset the Counter.
- Bytes 3-14: Twelve Character Bytes - Requires an ASCII character from "0" to "9" for each Byte to create the desired twelve-digit number.
- Bytes 15-16: Two Rate Bytes - The first byte is the Rate's Whole number - valid numbers are from Binary 0 to Binary 7. The second byte makes up the Rate's decimal numbers - valid numbers are from Binary 0 to Binary 99.
- Byte 17: Leading Zero Blanking Byte - Requires a Binary 64 to blank the leading "0"'s, any other number will leave them on.



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