



# Applied Electronics TM4-1200 Portable Dimming Unit

## User's Guide

### General

Applied Electronics TM4-1200 Portable Dimming Unit provides four channels of dimming @ 1200 watts per channel. Dimming may be controlled by any DMX-512 console, or by using the front panel controls.

### Controls and Indicators

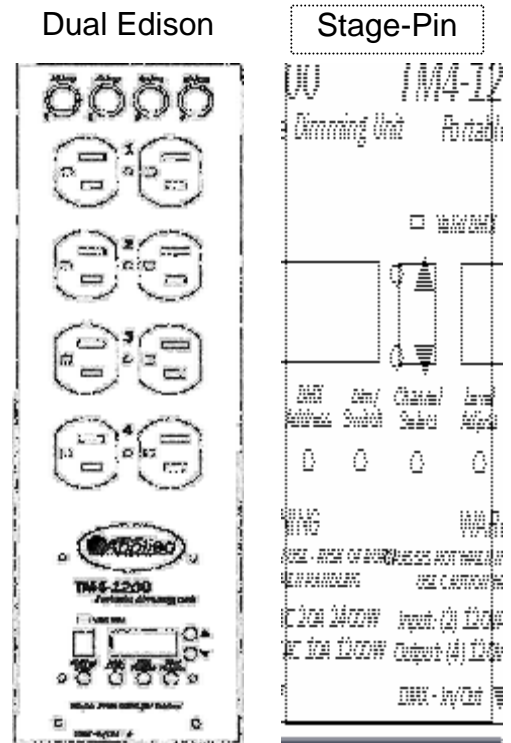
**Valid DMX LED** – Indicates the presence of a valid DMX-512 data stream.

**Channel Display** – Indicates the channel being modified when in Level Detect or Dim/Non-Dim modes.

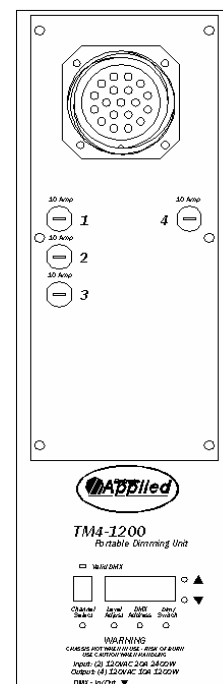
**Value Display** – When in default mode, this 3-digit LED display indicates the unit's current DMX base address. When in one of the three parameter modification modes, this display flashes and indicates the value of the current parameter.

**Channel Select Button** – Pressing this button steps the unit through each of the four channels when in Level Adjust or Dim/Non-Dim modes.

**Level Adjust Button** – Pressing this button once selects Level Adjust mode. When in this mode, the display flashes the current output level (0-100%) of the selected channel (1-4). The Channel Select button may be used to select the desired channel, and the Up and Down arrows may be used to modify the level of each output channel. When the



### Muti-Pin (Soco)



Level Adjust button is pressed again, the four output levels are stored in non-volatile memory and will be maintained on the outputs until a DMX signal is detected. If the unit is powered down and later powered back up, the stored levels will again be used to determine the output levels for each channel until a DMX signal is detected.

**DMX Address Button** – Pressing this button once allows the unit's DMX base address to be modified. When in this mode, the display flashes the current DMX base address. The Up and Down arrows may then be used to modify the address within the range 1 to 512. Pressing the DMX Address button again cause the selected address to be stored in non-volatile memory.

**Dim/Non-Dim Button** – Pressing this button once allows the output mode of each channel to be set as either Dim or Non-Dim. Channels set to Dim, indicated by a "d" on the display, will vary uniformly as the DMX (or Level Adjust) values change. Channels set to Non-Dim or Switch mode, indicated by an "S" on the display, will switch from OFF (if the control value is less than 50%) to FULL ON (if the control value is 50% or more). The Channel Select button may be used to select the desired channel, and the Up and Down arrows may be used to set the output mode for each channel. When the Dim/Non-Dim button is pressed again, the output mode for each channel is stored in non-volatile memory.

**Up/Down Buttons** – Used to modify values as detailed above.

### Input/Output

**Control Input** – Controls the output levels of all four channels, beginning at the specified DMX base address. Any DMX-512 lighting console may be used. A standard 5-pin male XLR type connector is provided for this input.

**Control Output** – The DMX signal supplied to the control input is fed back out through this 5-pin female XLR type connector.

**Power Input** – Two 120 VAC 60 Hz power inputs are provided. One input supplies power for output channels 1 and 3, and the other supplies power for channels 2 and 4. The TM4-1200 is capable of providing 10 Amps of output current per channel, but the total maximum input current for each output pair may be limited to less than 20 Amps, depending on the power input connector provided with the unit.

**Power Output** – There are Three power outlets to choose from. The Dual Edison, Stage-Pin and Multi Pin (soco). Each is limited to 10 Amps (1200 Watts @ 120VAC) by panel-mounted fuses. Again, the total current drawn from each output pair (1 & 3, and 2 & 4) may need to be limited to less than 20 Amps depending on the power input connector supplied with the unit.