

Museum Technology Source, Inc.

4321 Count Down Timer

Display section with 4 inch digits



Control Unit

For presentations that start on a regular cycle, the 4321 provides an easy method to automatically start the show, as well as to indicate to the waiting public how long it will be before the next show starts.

The 4321 consists of two components: the control unit, and the display. The control unit may be installed where most convenient, usually next to the equipment to be started, while the display, with its two 4 inch high digits, may be be mounted for optimal visibility to the public.

In operation, the control unit is preset with the desired intermission time. When placed in run mode, the remote display will display the preset time, and proceed to count down, in one minute increments, to zero. When zero is reached, a relay in the control unit closes for one second. This contact is used to activate show control equipment, such as DVD or audio control units.

For venues with multiple entrances, multiple displays may be employed. The display units are merely connected in parallel. The RS-485 data transmission technique used, allows the displays to be hundreds of feet apart if required.

Several modes of operation are available, set by DIP switches on the rear panel.

2 Component System with Display and Control

Can be mounted in any custom exhibit

Easily Adaptable

Switches provide several modes of operation

Additional displays can be used for multiple entrances

Starts show and notifies public when the next show will start

³²³ Andover Street Wilmington, MA, 01887 800-729-6873 / 978-657-3898 Fax: 978-657-7132 www.museumtech.com / info@museumtech.com

4321 Count Down Timer



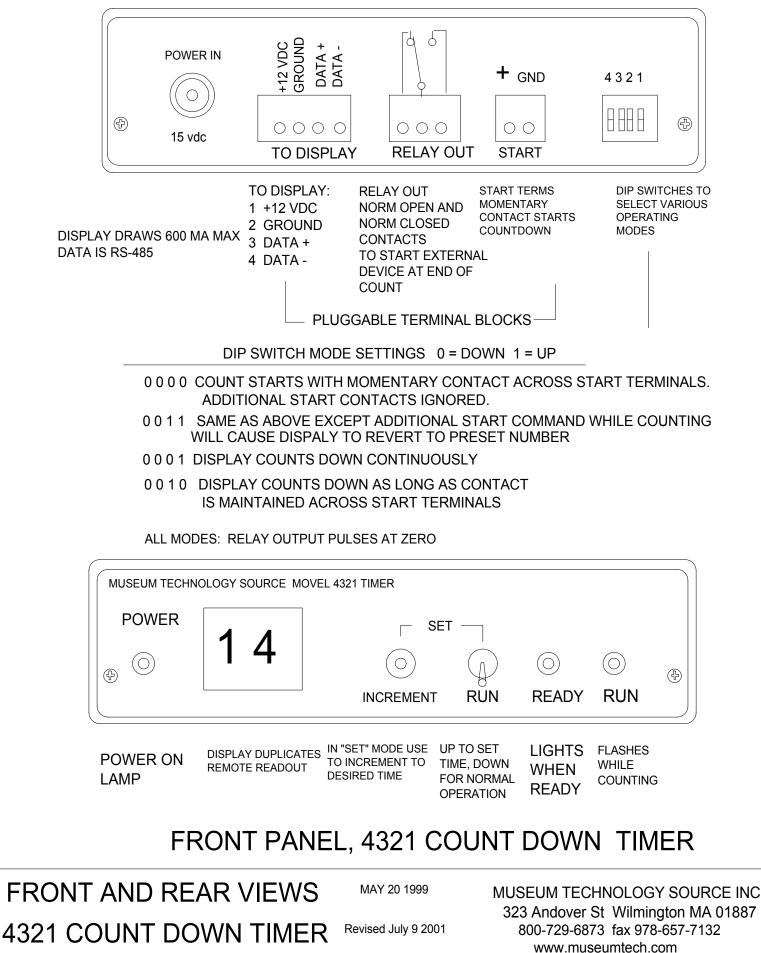
Rear Panel View of Control Unit

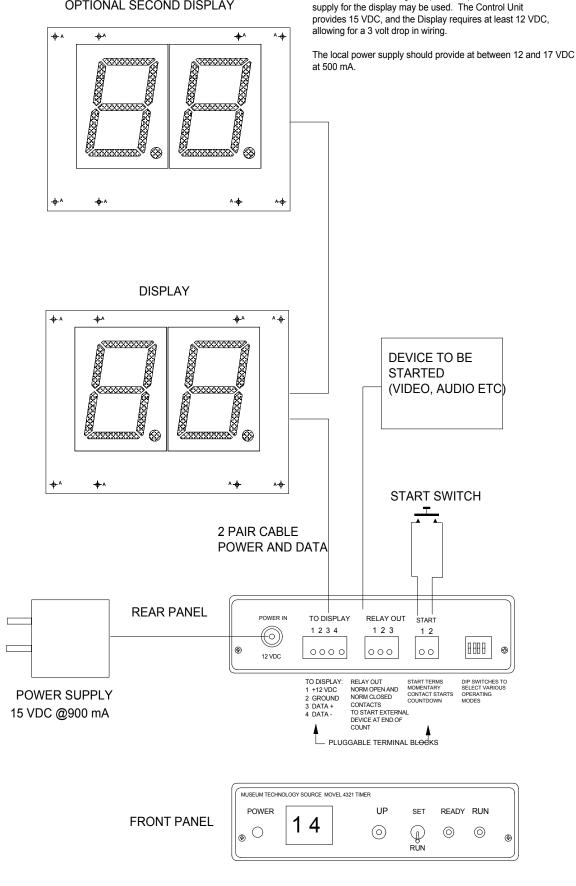
Technical Specifications

Display	Two digit, 4 inch high LED. Red standard; green available
Time Range	1 to 99 minutes in 1 minute increments
Operating Modes	a) counts down continuously; upon reaching zero reverts to present number and starts counting down again.b) counts down as long as contact is maintained across start terminals.c)Starts counting upon momentary contact across start terminals.d) same as (c) but if momentary contact while counting will cause display to revert to preset count
Start Input	Optoisolated input. Start switch must be capable of switching 12 VDC @20mA. Screw terminals on plugable block
Relay Output	SPDT relay rated at 2 Amps, 24 VDC. Activates for 1 second. three screw terminals on plugable block
Display Connection	4 wires; 2 for RS-485 data; 2 for 12 VDC power @ 700mA
Power	Supplied 15 VDC 900 mA external power supply. Sufficient for control unit and one display; multiple displays require addition- al power
Controls	Front panel Run/ Set toggle. In Set mode, Increment pushbut- ton is held until desired time is indicated on 2 digit display con- trol unit. Toggle in Run position enables normal operation. Front panel display reads same as remote display. Two LED's indicate status
Display Physical	Display is mounted on $9.4'' \times 7.1''$ metal plate which is attached to $13.5'' \ge 9.5''$ red Plexiglas drilled with 4 countersunk holes for mounting to exhibit surface. Weight 3 lbs.
Control Physical	1.5'' high x $5.5''$ wide x $9.0''$ deep. Weight 3 lbs.
Included Accessories	Power supply, 20 foot 4 conductor interconnect cable
Optional Accessories	RK-3 Rack Mount Kit; additional display units.

³²³ Andover Street Wilmington, MA, 01887 800-729-6873 / 978-657-3898 Fax: 978-657-7132 www.museumtech.com / info@museumtech.com

REAR PANEL, 4321 COUNTDOWN TIMER





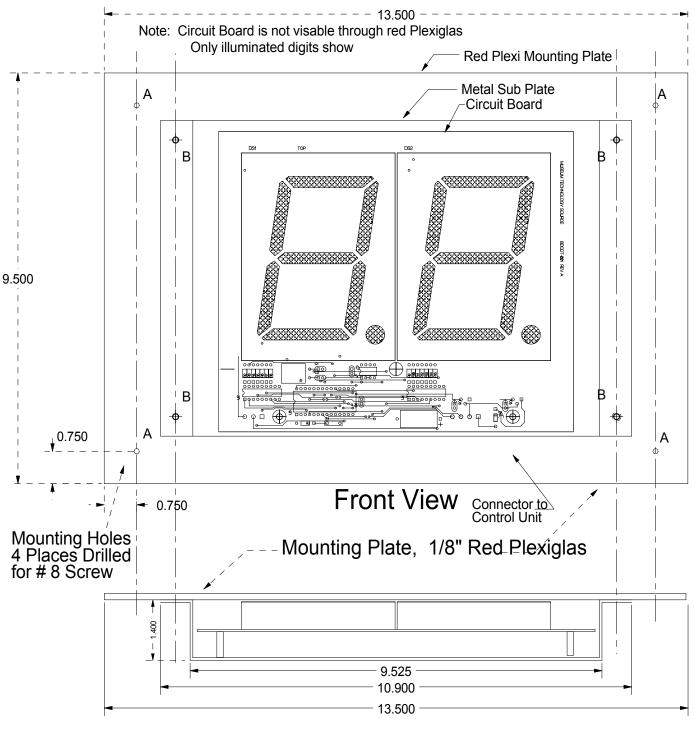
OPTIONAL SECOND DISPLAY

Note: If distance between Control Box and Display causes excessive voltage drop, a local power provides 15 VDC, and the Display requires at least 12 VDC,

4321 TYPICAL INSTALLATION

Revised July 9 2001 4321_install.fcw

Museum Technology Source Inc. 323 Andover St Wilmington MA 01887 800-729-6873 fax 978-657-7132 www.museumtech.com

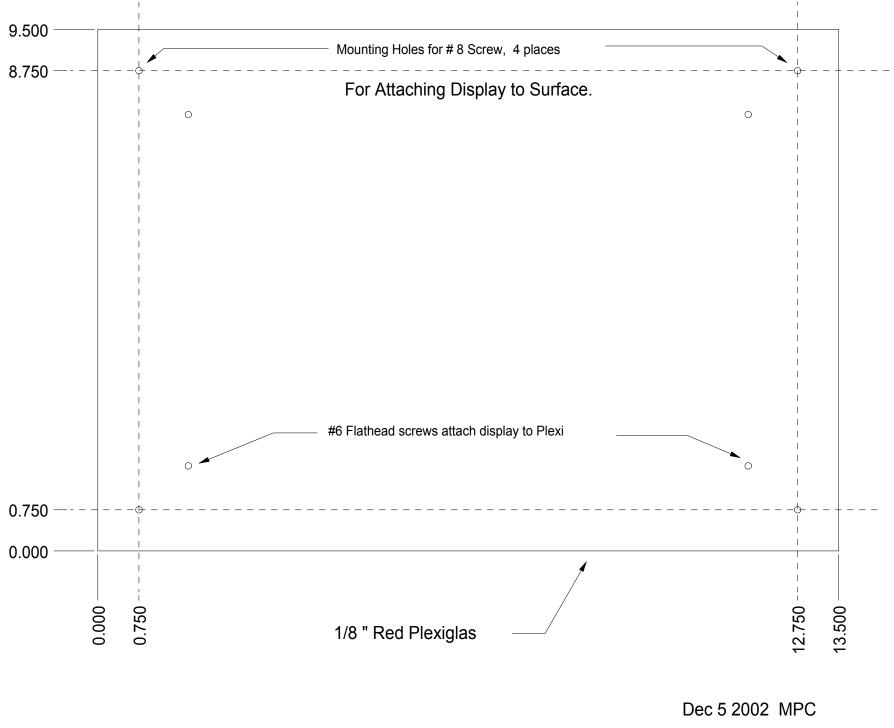


View from Top

4321 Count Down Timer Display Mounting Dimensions

Museum Technology Source Inc. Wilmington Mass. 01887 800-729-6873

Revised October 2003 MPC



4321 Countdown Timer Display Mounting Dimensions

Museum Technology Source Inc.