



Museum Technology Source, Inc.

4321 Count Down Timer

*2 Component
System with Display
and Control*

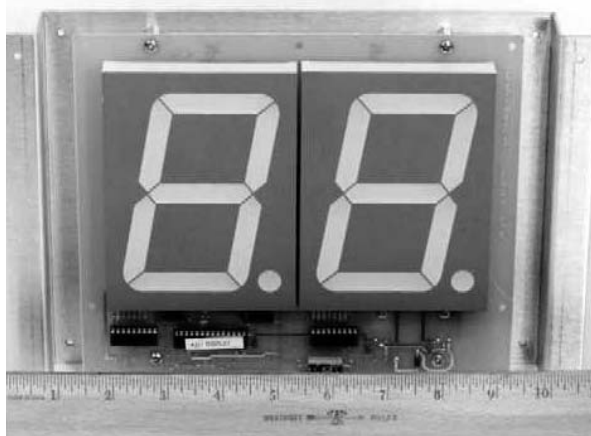
*Can be mounted in
any custom exhibit*

Easily Adaptable

*Switches provide
several modes of
operation*

*Additional displays
can be used for mul-
tiple entrances*

*Starts show and
notifies public when
the next show will
start*



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

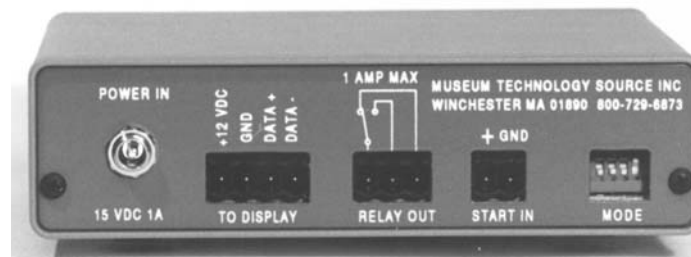
The 4321 consists of two components: the control unit, and the display. The control unit may be installed where most convenient, usually next to the equipment to be started, while the display, with its two 4 inch high digits, may be mounted for optimal visibility to the public.

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.

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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 additional power
Controls	Front panel Run/ Set toggle. In Set mode, Increment pushbutton is held until desired time is indicated on 2 digit display control unit. Toggle in Run position enables normal operation. Front panel display reads same as remote display. Two LEDs indicate status
Display Physical	Display is mounted on 9.4x7.1 metal plate which is attached to 13.5 x 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