# **Unison Echo® TimeClock**







## **Echo Control Series**



#### GENERAL INFORMATION

When time-based control and energy consumption are a concern, the Echo TimeClock brings low-cost, time-of-day control to Echo architectural and Sensor® Power control systems. With astronomical and real-time event support, as well as recurrence and holiday schedules, the TimeClock provides critical energy savings for today's energy-code requirements.

#### **APPLICATIONS**

- Education
- Hospitality
- Healthcare facilities
- Office buildings
- Conference rooms
- Meeting rooms
- Retail

#### **FEATURES**

- Supports 16 Echo control spaces
- Astronomical timeclock with +/- sunset or sunrise settings and programmable latitude/longitude
- 24-hour real time clock with user configurable Daylight Saving Time
- Four recurrence settings: every day, weekday, weekends and day of week
- 50 field-programmable events
- Hold: keep the system in the current event up to two hours or until canceled
- Simple manual control of presets with overrides
- Resumes program automatically after power loss
- Backlit graphical LCD display
- Meets California Title 24 and ASHRAE 90.1 requirements

## **GENERAL**

- UL and cUL LISTED
- CE marked

#### ORDERING INFORMATION

#### **Echo Astronomical TimeClock**

MODEL	DESCRIPTION	
E-ATC	Echo TimeClock Station	

To order, indicate the color, 1, 4, or 5 in the blank:

- 1 = Cream (RAL 9001)
- 4 = Black (RAL 9004)
- 5 = Signal White (RAL 9003)

## **Echo TimeClock Accessories**

MODEL	DESCRIPTION		
E-2C	Two-Gang Locking Cover - Flush-Mount (Cream)		
E-2B	Two-Gang Locking Cover - Flush-Mount (Black)		
E-2W	Two-Gang Locking Cover - Flush-Mount (White)		

### **Echo Power Requirements**

EchoConnect:	1 Unit of Control Power
Auxiliary Power:	40mA



## **Echo Control Series**

## ECHO FAMILY OF PRODUCTS

## **EchoConnect Power Supplies**

MODEL	DESCRIPTION		
E-SPS	6U Room Station Power Supply, Knockout Mount		
E-SPS-DIN	16U DIN rail Station Power Supply with 24V Aux		
E-SPM	16U DRd Station Power Module		
E-SPM-A	16U DRd Station Power Module with 24V Aux		
E-SPM-RM	16U Rack-Mount Station Power Module Aux		
E-SPM-RM-A	16U Rack-Mount Station Power Module 24V Aux		
E-SPM-WM	16U Wall-Mount Station Power Module		
E-SPM-WM-A	16U Wall-Mount Station Power Module 24V Aux		
E-APS	24V Aux Power Supply, Knockout Mount		

## **Echo Stations**

Echo Stations				
MODEL	DESCRIPTION			
E1001	Inspire One Button Station			
E1002	Inspire Two Button Station			
E1004	Inspire Four Button Station			
E1006	Inspire Six Button Station			
E1008	Inspire Eight Button Station			
E1104	Inspire Four Button with Fader Station			
EPS05	Echo Preset Station - 5 Button			
EPS10	Echo Preset Station - 10 Button			
EPSLO	Echo Lockout Station			
E-ATC	Echo TimeClock			

## **Echo Responsive Controls**

MODEL	DESCRIPTION			
ELS	Light Sensor			
EOCC	Ceiling-Mount PIR Occupancy Sensor			
EVAC	Ceiling-Mount PIR Vacancy Sensor			
E-DOC-C	Ceiling-Mount Dual Tech Occupancy Sensor			
E-DVAC-C	Ceiling-Mount Dual Tech Vacancy Sensor			
E-DOC-W	Wall-Mount Dual Tech Occupancy Sensor			
E-DVAC-W	Wall-Mount Dual Tech Vacancy Sensor			
E-DOC-SM1	Switch-Mount Dual Tech Sensor - One Button			
E-DOC-SM2	Switch-Mount Dual Tech Sensor - Two Button			

## **Echo Interfaces**

MODEL	DESCRIPTION			
EACC	EchoAccess Interface			
EEB	Echo Expansion Bridge			
EDMXC	Echo DMX Scene Controller			
EEI	Echo-Echoflex Interface			
ECII	Echo Contact Input Interface			
ECOI	Echo Contact Output Interface			
EDRI	Echo Demand Response Interface			

## **Zone Controllers**

MODEL	DESCRIPTION			
ERC-G2	One Zone Relay Controller			
EDRC-G2	Two Zone Relay Controller			
ELD-G2	One Zone 0-10V Controller			
EDLD-G2	Two Zone 0-10V Controller			
ESSC-G2	One Zone SmartSpace Controller			
EDSSC-G2	Two Zone SmartSpace Controller			
ELVD-G2	600-Watt Phase Adaptive Dimmer			
ELVD-277-G2	600-Watt Phase Adaptive Dimmer- 277V			

### **Room Controllers**

MODEL	DESCRIPTION			
ERMC4-G2	Four Zone Room Controller			
ERMCT4-G2	Four Zone Room Controller with TimeClock			
ERMC8-G2	Eight Zone Room Controller			
ERMCT8-G2	Eight Zone Room Controller with TimeClock			

## **Panel Products**

MODEL	DESCRIPTION			
ERP	cho Relay Panel Mains Feed			
ERP-FT	Echo Relay Panel Feed Through			
SensorIQ	Sensor IQ Intelligent Breaker System			
SR3	Sensor3 Power Control System			
DRd	Unison DRd with Echo Control			

# **Unison Echo TimeClock**

## **Echo Control Series**

#### SPECIFICATIONS

#### **FUNCTIONAL**

- Home screen displays time, date, and any active tasks
- Ability to hold current preset for timed-event override (up to two hours)
- Supports up to 16 presets
- Supports everyday, weekday, weekends and day of week recurrence
- Supports Time-of-day, sunrise with offset, and sunset with offset events
- Supports 50 events
- Supports up to 16 control spaces

#### MECHANICAL

- Mounts in flush-mount, industry-standard, two-gang backboxes
- Surface-mount backboxes available from ETC
- High-contrast, backlit graphical LCD
- Six-button menu-navigation keypad
- Injection-molded ABS plastic bezel available in three standard colors: cream, black, and white
- Bezel has no visible means of attachment
- Locking cover available
- Fully enclosed electronics assembly

#### **ELECTRICAL**

- Connects via the EchoConnect® control network via lowvoltage Class 2 wiring
- Two #16 AWG wires for 24VDC auxiliary power
- Topology-free wiring over Belden 8471 or equivalent and one #14 ESD drain wire
- Supports optional use of Belden 1583A or equivalent Ethernet control-wire when used with Cat5 termination accessories
- Wiring may be bus, loop, homerun or any combination of these
- Supports up to 500 meters (1,640 feet) of control wiring
   Up to 1000ft using CAT5
- All station terminations utilize pluggable connectors

#### **THERMAL**

- Ambient temperature: 32° to 104°F/0 to 40°C
- Ambient humidity: 30-90% non-condensing

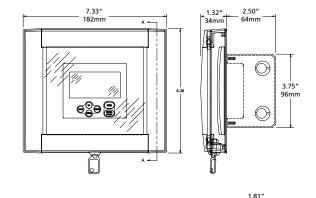
#### PHYSICAL

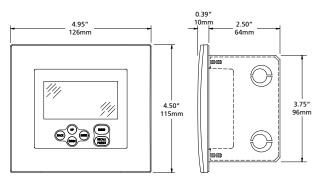
#### TimeClock Dimensions

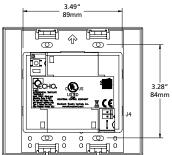
MODEL	HEIGHT		HEIGHT WIDTH		DEPTH	
	in	mm	in	mm	in	mm
E-ATC	4.5	114.3	4.9	124.5	1.3	30.1

### **TimeClock Weights**

MODEL	WEIGHT			
	OZ	g		
E-ATC	8	227		









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