

The Smart Clock enables companies to collect not only the employees in and out punches for the day, but also Labor Distribution information by having them clock in/out at the Smart Clock as employees move from job to job throughout the day.

## Smart Clock Features

The Smart Clock is housed in a high impact ABS sealed plastic case and provides a full menu system for all configuration settings. This allows the user to modify the baud rate, clock ID, daylight savings time enable or disable, parity, etc.

The Smart Clock is a multi tasking device with the ability to read employee cards and communicate with your ADI time and attendance system at the same time.

The display is a 2x16 super white backlit LCD with a pixel character size of 5x7 providing incredible contrast, wide viewing angle and readability from over 10 feet.



The Smart Clock is equipped with a real time clock chip with its own lithium battery. It features a 100 year calendar with automatic adjustment for daylight savings, days of month, and leap year compensation. It is accurate to +/- 12 minutes a year.

- It is a programmable terminal utilizing a 22-MHz 80C32 Intel microprocessor
- The RS-232 port is powered by the Maxium232 Communications Driver. This chip has its own built-in charge pump to provide true RS-232 communications
- The RS-485 port connects (Daisy-Chain) up to 32 Smart Clocks with an overall cable distance of 4000 feet
- Uses pass through technology to allow the first Smart Clock connected to the PC to act as the RS232 to RS-485 converter. This pass through technology also allows a Smart Clock equipped with an external modem in a remote building the ability to daisy chain up to 32 additional Smart Clocks via RS-485 with communications rates from 1200 to 19.2K baud
- The Smart Clock can be equipped with an ethernet board or WI-FI adapter for network connectivity
- Comes with FLASH memory to enhance the reliability of the employee data (10 years min. retention) and is installed with 128K on board
- Can be equipped with a high energy track 2 magnetic stripe reader, a bi-directional infrared bar code reader, or an HID or other proximity (RFID) reader and optional external 26 bit Weigand input
- Designed with noise reduction differential mode noise protection; 500 volt spike protection (ac line); and 2000 volt ESD protection

## Smart Clock Specifications

<b>BADGE READER:</b>	Magnetic Stripe, Barcode, modem, HID Proximity reader (RFID)
<b>CLOCK:</b>	100-year clock/calendar, crystal controlled, with 10-year battery
<b>DISPLAYS:</b>	Internal audio alarms on valid and void transactions. Alpha numeric 2x16 character, super twist white backlit LCD display with a pixel character size of 5X7 - incredible contrast, wide viewing angle and readability
<b>MICRO PROCESSOR:</b>	Intel 22-MHz microprocessor
<b>INTERFACE:</b>	EIS RS-232 and RS-485 (allows for multi-drop daisy chain)
<b>PROGRAM MEMORY:</b>	64K programmable, read-only memory
<b>DATA STORAGE:</b>	128K of Flash memory on board
<b>DATA RETENTION:</b>	Unlimited due to Flash memory
<b>BATTERY BACK-UP:</b>	Keeps clock fully operational from 2 to 4 hrs during a power failure (optional)
<b>INTERNAL RELAY:</b>	Form 1C, 2 Amps @ 120 VAC
<b>OPERATING MODE:</b>	Batch polled with acknowledgement for each transaction
<b>WEIGHT:</b>	Under 5 pounds
<b>SIZE:</b>	4.9" high x 6.9" wide x 3.7" deep
<b>POWER:</b>	115 VAC, 60 Hz @ 12 watts. Optional 230 VAC, 50 Hz @ 12 watts
<b>HUMIDITY:</b>	5%-95% relative humidity (non-condensing)
<b>TEMPERATURE:</b>	20°F to 125°F