

Airotronics TIMERS and CONTROLS

ENERGIZING INDUSTRY, EMPOWERING INNOVATORS

What can we create for you?

TYPICAL APPLICATIONS include

- Elevator Door Controls ■ Motor Start Delays ■ Power Supply Sequencing
- Compressor Delay and Shut-off Controls ■ Display and Sign Controls
- Copier and Office Machinery Controls ■ Alarm Delays ■ Control Panel Timers
- Packaging Equipment ■ Carwash Timers ■ Irrigation Equipment
- Dispensing Equipment ■ Production Machinery Automatic Controls
- Process Mix Timers ■ HVAC Controls ■ Appliances
- Foodservice Equipment ■ Industrial Laundry Equipment

MODES OF OPERATION include

- Delay On Make ■ Delay On Break ■ Repeat Cycle ■ Single Shot On Make
- Single Shot On Break ■ Interval On ■ Interval On Delay ■ True Off
- Recycle ■ Delayed Interval ■ Anti-short Cycle ■ Current Sensor

DUAL / COMBINATION MODES include

- On Delay / Off Delay ■ Accumulated Delay ■ Dual On Delay
- Repeat Cycle Off/On Delay ■ Repeat-cycle On/Off Delay ■ Flasher
- Alternating Repeat-cycle Off/On ■ Percentage ■ Percentage/Recycle/On/Off
- Alternating Relay ■ Retriggerable Interval

TIMERS AND CONTROLS include

- Timers With Relay Output
- Solid State Timers
- Electronic Cam Timers
- Coin Counting Timers
- Optocoupled Timers
- Voltage Sensor / Timer
- Delay On Make / Interval
- Delay On Make / Recycle
- Delay On Break / Delay On Make
- Watchdog Timers
- Single Shot On Break
- Multi-function Timers
- Percentage Timers
- Plug-in Timers
- Cube/relay Timers
- Anti-short Cycle Timers
- 5-Channel Sequencer
- Universal Timer
- True Off Delay Cube Timer
- Defrost Timers
- Flashers
- Audio Signal Timers
- Current Sensors
- Microprocessors
- Custom Products

From relay and solid state timers to complex microprocessors and custom designs, Airotronics builds in the functionality needed to get the job done. Contact us early for engineering assistance and get the right component at the right price.



Designed and manufactured in the USA

AIROTRONICS

Timers and Controls

A division of Pelco Component Technologies

Visit us online at www.airotronics.com
Contact your representative for personal attention

PELCO

COMPONENT TECHNOLOGIES

Putting Power to Work

2747 Rte 20E Cazenovia, NY 13035 www.pelcocaz.com

Airotronics TIMERS and CONTROLS

PUTTING POWER TO WORK SINCE 1955

Versatile and reliable, timers and controls from Airotronics are putting power to work in transportation and industry, agriculture and appliances, manufacturing and services across North America and around the world. By managing the flow and form of power in a wide variety of specialized applications, our innovative products make things happen at the right time in your systems, environments, vehicles and inventions.

As we celebrate 50 years of energizing American industry and innovation, we pledge to continue designing solutions that help make your bright ideas both successful and profitable.

Personal service Our knowledgeable sales representatives are happy to meet with you face-to-face. From the start our goal is accurate communication and cost-effective systems, from specification and design, through manufacturing and delivery. We intend to provide both a great solution and a reliable relationship.

OEM focused Whether planning a new product or seeking a better solution, we know OEMs' needs are complex. We aim to satisfy engineering standards, manufacturing requirements and purchasing demands.

Myriad functions, variables, parameters Choose from our nearly limitless selection of standard timers and controls, or create a custom-designed product.

Engineering assistance and technical support assure success. Original designs for custom products give customers unprecedented opportunities for innovation. All development and software programming is done in-house. Factory visits are encouraged.

Agency approvals Our understanding of and experience with UL and CSA requirements facilitates the approval process.

Quality program We incorporate stringent internal quality practices and procedures throughout design, development and manufacturing processes. As a final assurance of quality, each and every product is performance-tested before shipping.

Delivery and distribution Of course, on-time delivery is a given. Stocking programs, quick ship programs and bar coding are also available.

Standards, specials or customs—if it's from Airotronics, innovation and reliability are built in.

AIROTRONICS

Timers and Controls

A division of Pelco Component Technologies

Airotronics TIMERS THE PULSE OF YOUR PRODUCT

TG Series Timers with Relay Output

- Offers all timing functions ■ Wide range of input voltages available: 12-48VDC, 24-240VAC or customer-specified
- Relay outputs from 10-40 Amps
- Any time range available, fixed or adjustable
- Integral or external time adjustment methods with factory-fixed or variable parameters ■ Relay output forms available: SPST, SPDT, DPDT
- Encapsulated circuitry ■ No heat sinking required

Provides direct control of motors, heaters, fans, compressors, pumps, lights, solenoids, alarms and many more.

Labor-saving, easy installation reduces assembly time and improves cost-efficiency.



TG/VPM
Dual Solid State
with one relay output
School Bus Door Latch

TH Series Solid State Timers

- Offers all timing functions ■ Wide range of input voltages available: 12-48VDC, 24-277VAC or customer-specified
- Any time range available, fixed or adjustable ■ Integral or external time adjustment methods with factory-fixed or variable parameters ■ Encapsulated circuitry ■ No heat sinking required

Provides digital timing, flasher controls, percentage timers, HVAC controls and many more.

Labor-saving, easy installation reduces assembly time and improves cost-efficiency.



TH3ML
Solid State Output
Subway Door Opener

Specialty Timers include

TN Series Plug-in Digital Timers

Available with round octal, round magnal, and Quick Connect blade terminal bases.

TB Series Miniature Solid State Timers

Factory-fixed or adjustable time, 8-40VDC in compact 1 5/8" square.

Airotronics MICROPROCESSORS

SMART CONTROLLERS, THE BRAINS OF THE OPERATION

MC Series Microprocessor-based modules handle multiple complex functions

Powerful and economical substitute for Programmable Logic Controls (PLC)

- Provide sequential or synchronous controls for sophisticated applications
- Preprogrammed at the factory to match your requirements

Typical Functions ■ All delay functions available, including combinations

- Logic—any sequence, from all inputs ■ Counters—any number of events
- Set points—multiple set points, multiple actions ■ Setting options—fixed, potentiometer, dipswitch, calculated, taught ■ Teach function—controller adapts to functional parameters on-site
- Decision making—custom-designed algorithms allow MCs to analyze and react to specific environmental variables (analog or digital input) ■ Many more complex functions available!

Features include ■ Flash memory ■ Analog-to-digital converters

- 14 or 20 input and output combinations ■ On-chip timers ■ Pulse-width-modulation capability
- Computer-operating-properly firmware ■ Low-voltage detection firmware

Standard Configurations include ■ Up to 6 logic inputs, up to 7 outputs

- Relay outputs (3-40 amps) or solid state (1 amp Triac, power FET) ■ On-board LEDs
- Protective epoxy encapsulation ■ Transient protection ■ Analog timing accuracy to $\pm 1\%$

Options and Upgrades include ■ Onboard fuses ■ Various connectors available

- Line filters and input filters ■ Transformers ■ Programmable for alternate functions or parameters
- Save parameters during power down or power loss ■ Crystal-controlled timing accuracy to $\pm 1\%$

Used for cam timers, coin counters/accumulators, door or gate controls, to replace multiple timers, and more.



MC-Defrost Timer
Commercial Refrigeration
Cooling and Defrost Controller

HCS—Solid State
Current Sensor



Airotronics CURRENT SENSORS

RELAY AND SOLID STATE SERIES

CS Relay

- Over-current and under-current sensing
- Go-NoGo sensing ■ Toroidal sensing provides complete isolation between sensed current and control circuit

- Easy setting of trip point with unique combination of LED indicator, current adjustment and percentage potentiometers ■ Can switch up to 20 amps (1.5 HP) ■ Range of input voltages
- Variable and fixed time delay ■ No heat sinking required

HCS Solid State

- High range over-current sensing, up to 60 amps ■ Toroidal sensing provides complete isolation between sensed current and output circuit ■ Choose factory-fixed trip point or variable setpoint with onboard potentiometer ■ Self-powered ■ Direct connection to Programmable Logic Control input

CUSTOM Current Sensors—Contact Airotronics for a current sensor customized for your application.

Airotronics CUSTOM PRODUCTS

YOU DREAM IT UP, WE'LL GET IT DONE

A multitude of options, plus in-house engineering, and direct communication throughout development and testing, ensures success for the most innovative or specialized controls.

We can combine features, functions, parameters and options from across our extensive product lines.

Or create a one-of-a kind solution that meets your needs perfectly and sets your product apart.

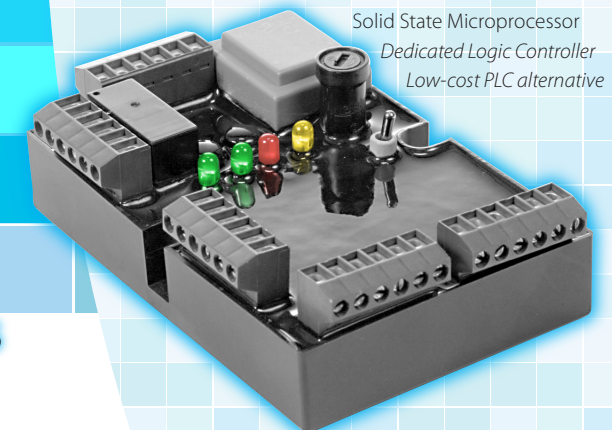
Rigorous quality standards are in place at every step: development, prototype, approval and of course, 100% testing before shipping.

Big idea but smaller budget? Give us a call.

Many of our customs can be modified to provide specialized solutions at the right price.

DLC with Teach

Solid State Microprocessor
Dedicated Logic Controller
Low-cost PLC alternative



Airotronics Custom Products at work

- Liquid dispensing ■ Braking systems
- Hydroponics ■ Industrial washers
- Defrost controls ■ Ice makers
- Heat pump controls
- Subway door controls
- HVAC, foodservice, agricultural, transportation, industrial applications, and many more.

315-655-8476 www.airotronics.com

Airotronics timers and controls put power to work in your products. Call us today for a full-service solution.

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