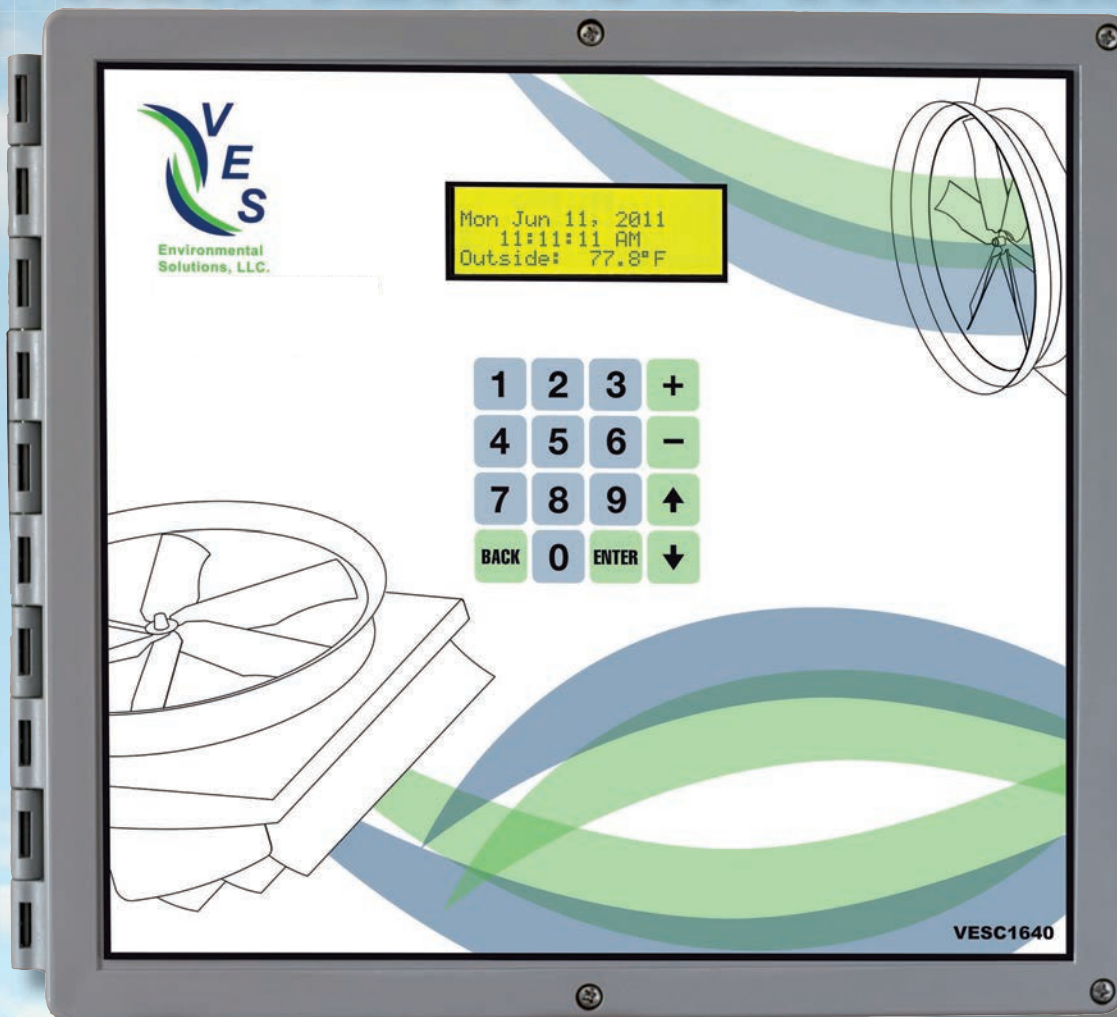




# Introducing the **NEW** VESC1640 Control!



***Versatility and adaptability, the VESC1640 has it!***

At the heart of any good environmental system is a good control. VES Environmental Solutions LLC is North America's leader in designing and supplying quality cost effective ventilation, cooling, lighting and related environmental products. To get the most out of our energy saving and efficient products we have developed a unique line of controls from simple stand alone for each component up to complete environmental systems and management software controls. Call VES for your opportunity for the next generation of ventilation.

VES Environmental Solutions, LLC.  
8296 Commerce Pkwy, Chippewa Falls, WI 54729  
1-888-622-2999, Fax. 715-720-0801  
[www.vesenviro.com](http://www.vesenviro.com)

## VESC1640

This is our most popular and cost effective environmental system control. The 16 stage control has versatility, flexibility and expandability. We start with 4 stages of 0-10 VDC designed to operate our popular line of Variable Frequency drives (VFD). One stage of 0-10VDC can operate up to 5 VFD's as long as they are not spaced more than 100 feet apart to a maximum of 500 feet. This gives a potential of operating 20 fans. The remaining 12 stages can operate fans, cooling, heating, lighting, curtain or other inlets.

- The VESC1640 has 4 variable stages for heating or cooling control and 12 relay stages for heating, cooling, actuator control, duty cycle, or timed events.
- You can set up and manage your unique control strategy using the VESC1640's keypad and easy-to-understand menu system.



## Designed with quality and you in mind

We designed the VESC1640 so one unit can control an entire hog or dairy barn, poultry house or greenhouse. For larger facilities, you can connect up to 32 VESC1640s and operate them from a central computer using the powerful and convenient optional software.

The VESC1640, like every VES control, was designed to our strict quality standards and is CSA certified. Every VES control is tested — yes, every unit we sell — before it leaves the factory, ensuring it works as designed and you get the best product possible.



Superior customer service and support  
Year-after-year, our experts train all dealers, and others in our value chain, to support the VESC1640 and other VES controls.

The VESC1640's onboard diagnostics make sure important internal systems are working as intended. The VESC1640's easy-to-read user manual includes configuration and programming worksheets, as well as troubleshooting sections.

The five-level PIN security system allows you—the facility manager—to prevent unauthorized changes to configurations and settings.



***We know of no other electronic control used for these or similar commercial purposes which provides so many important features and benefits for so modest an investment.***

**“Since converting my natural ventilation freestall barn to an automatic system controlled by the VESC1640, I have seen improved milk production and no freezeups during winter. The VESC1640 automatically adjusts variable frequency drive fans and inlet curtains, providing proper minimum ventilation and consistent temperature and air flow. On hot days, the VESC1640 controls high-pressure fog cooling using its duty cycle timer. Automatically-controlled ventilation has proven to be a great improvement over manually controlled ventilation, and the VESC1640 has the ability to make it happen.”**

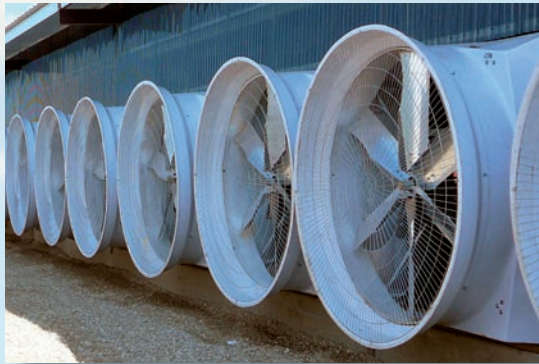
**– Bob Donahue Luckwaldt Farms Woodville, Wisconsin**



**Toll Free 1-888-622-2999 or E-mail [info@vesenviro.com](mailto:info@vesenviro.com)**

## Greenhouse Applications

- In a power or naturally-ventilated greenhouse, use the VESC1640 to control motorized louvers and ridge vents and single-speed, two-speed, or variable-speed motors. During hot weather, use the VESC1640 to automatically switch on the fan and water pump of an evaporative cooler at specific temperatures.
- For watering or misting plants, use the VESC1640's on/off cycle timer that you can program for certain times and/or temperatures.
- For greenhouses with separate temperature requirements, for example, ventilation and heated earth beds, use the VESC1640's fourzone feature that provides independent climate control for each zone.
- For applications using the DIF technique, use the VESC1640's temperature setback feature. For example, use setback to reduce the temperature for two to three hours at dawn to control plant height and growth.

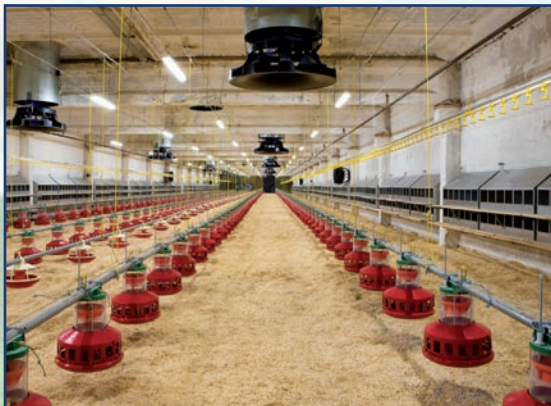


## Dairy Applications

- Dairy applications In a naturally-ventilated free-stall building, use the VESC1640 to control curtain machines, mixing fans, and water misting for evaporative cooling.
- In a tunnel ventilation facility, use the VESC1640 to control curtain machines and heaters.
- During hot weather, use the VESC1640 to control evaporative cooling equipment, such as pumps and solenoids.
- Use the optional humidity sensor, to reduce humidity accumulation by automatically adjusting ventilation within a set humidity range.

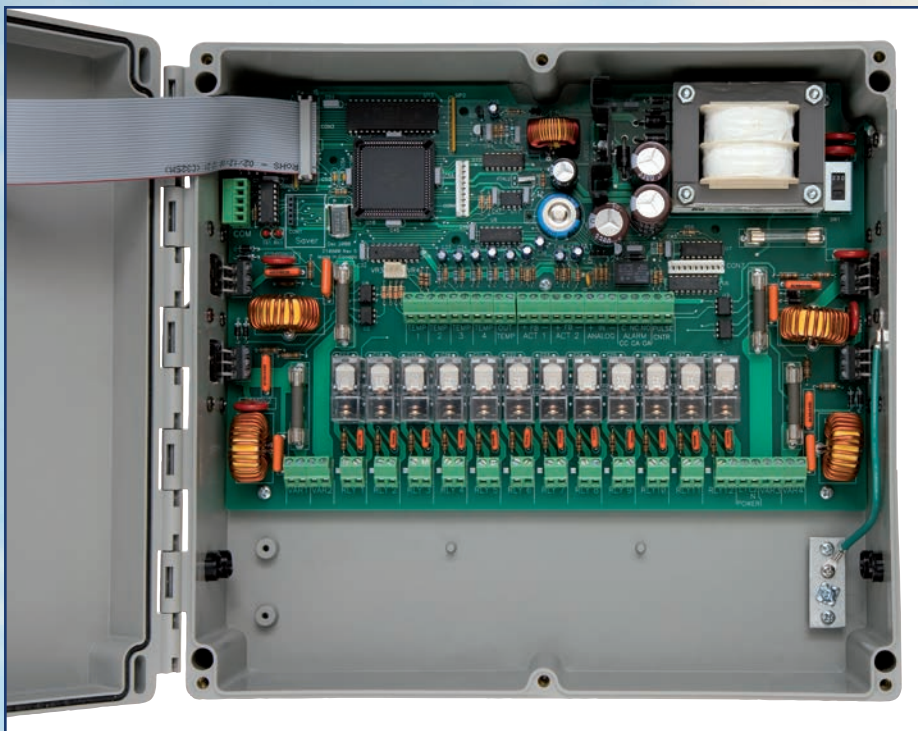
## Swine Applications

- In a naturally-ventilated hog building, use the VESC1640 to control curtain machines, recirculation fans, heaters, and evaporative cooling equipment.
- Use the optional humidity sensor to reduce humidity accumulation by automatically adjusting ventilation within a set humidity range.
- In a tunnel ventilation building, use the VESC1640 to control tunnel fans and curtains, pit fans, wall fans, ceiling inlets, and heaters. The VESC1640 can close ceiling inlets or switch off wall fans when changing to tunnel mode.
- Use the VESC1640's timer function to control water misting for evaporative cooling. The optional humidity probe can automatically adjust the ventilation to reduce high humidity.
- In a typical power ventilation setup, use the VESC1640 to control all fans, heaters, and actuator controlled ceiling inlets. If you have lights or feed augers that need to be on at certain times, use the VESC1640 to easily operate these.



## Turkey and Other Poultry Applications

- In a naturally-ventilated turkey house, use the VESC1640 to control curtain machines, recirculation fans, heaters, and evaporative cooling equipment.
- Use the optional humidity sensor to reduce humidity accumulation by automatically adjusting ventilation within a set humidity range.
- In a broiler or layer house with tunnel ventilation, use the VESC1640 to control all fans and curtains, ceiling inlets, and heaters. The VESC1640 can close ceiling inlets or switch off wall fans when changing to tunnel mode.
- Use the VESC1640's timer function to control water misting for evaporative cooling.



## Feature list

- Four 0-10V DC Stages
- 12 Relays
- Variable DC signal output
- Slave unit capability
- Inlet actuator control
- Curtain control
- Tunnel ventilation mode
- Duty cycle and timed events
- Manual override
- Custom growth curves
- Four-zone temperatures
- Outdoor temperatures
- Humidity control
- Water use monitoring
- Programmable alarms
- De-icing start (VAR fans)
- Computer compatibility
- Upgradeable firmware
- Transferable settings
- CSA approval
- Two-year warranty
- Electrical ratings Input
- Removable relays

## More great features

- One alarm relay (for external alarm siren or alarm system)
- Four-zone temperature monitoring and control
- Outdoor temperature monitoring ability
- Temperature setback for day/night temperature (DIF) control
- Water usage monitoring ability
- Humidity monitoring and control ability
- Adjustable temperature settings, including two configurable seven-step growth curves
- Startup timer for distributing backup generator initial startup load
- Three-second full-power-turn-on for minimizing fan ice-up
- Logging of temperatures, alarms, relay "on" durations, and setting changes
- Power-failure memory protection, including internal 24-hour clock
- Four-line, backlit LCD display
- Thirty-foot temperature probe, extendable to 500 feet (additional probes available)
- Rugged enclosure (corrosion and water resistant, fire retardant)
- Two-year limited warranty
- 120/230 VAC, 50/60 Hz Relay stages
- 10 A at 120/230 VAC, general purpose (resistive)
- 1/3 HP at 120 VAC, 1/2 HP at 230 VAC
- 360 W tungsten at 120 VAC Alarm relay
- 0.4 A at 125 VAC; 2 A at 30 VDC, resistive load
- 0.2 A at 125 VAC; 1 A at 30 VDC, inductive load



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