

VESC1640 CONTROL

AGRICULTURAL

PRODUCT HIGHLIGHTS

FEATURES:

- The VESC1640 has 4 variable 0-10V DC stages for heating or cooling control and 12 relay stages for heating, cooling, actuator control, duty cycle, lighting or timed events.
- You can set up and manage your unique control strategy using the VESC1640's keypad and easy-to-understand menu system.
- The VESC1640 was designed so one unit can control an entire hog or dairy barn, poultry house or greenhouse.
- 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.
- The five-level PIN security system allows you—the facility manager—to prevent unauthorized changes to configurations and settings.



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.

This is our most popular and cost effective way to completely control your environmental system. 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.

“Since converting my natural ventilation freestall barn to an automatic system controlled by the VESC1640, I have seen improved milk production and no freeze-ups 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



**Environmental
Solutions, LLC.**
vesenviro.com

8296 Commerce Pkwy,
Chippewa Falls, WI 54729 USA
Toll Free Tel.: (888) 622-2999
Tel.: (715) 720-0800
info@vesenviro.com

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Feature list

- Tunnel ventilation mode
- Duty cycle and timed events
- Custom growth curves
- Computer compatibility with upgradeable firmware
- Transferable settings
- Electrical ratings input
- Programmable alarms and 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 ability
- Adjustable temperature settings, including two configurable seven-step growth curves
- Start-up timer for distributing backup generator initial start-up 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
- Thirty-foot temperature probe, extendable to 500 feet (purchase additional lengths separately)
- Rugged enclosure (corrosion and water resistant, fire retardant)
- 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
- CSA approved
- Two-year warranty