# AVC-6

ECS Advanced**IQ** Vent Controller

Engineered Corrosion Solutions


## Features

Interactive LCD touchscreen display

Pressure & purity monitoring for up to 6 zones

Datalogging & historical trends for each zone

Manual leak rate checks for each zone

Optional remote monitoring and email alerts

Easy installation and setup

Removeable datalog (flash drive)

Form C dry contact supervisory signal

Contains cULus Listed Open Type Industrial Control Panel

Meets Canadian Standard CSA C22.2 No. 14-13

## General Description

The ECS Advanced**IQ** Vent Controller (AVC) provides automatic oxygen venting and monitoring of nitrogen/oxygen concentration levels within each dry/preaction fire sprinkler system. As a fire sprinkler system is filled with a continuous supply of nitrogen gas from the ECS Advanced**IQ** Nitrogen Generator System, the ECS Dry Vent, installed on the sprinkler system riser, allows oxygen-rich gas to be vented from the fire sprinkler system. The AVC samples the discharge gas from each ECS Dry Vent connected to the controller. Over a fourteen (14) day period, the ECS Dry Vent will dilute the oxygen concentration in the fire sprinkler system to less than 2% oxygen. The gas flows out of the restricted orifice on the vent through pressure rated tubing to provide slow controlled flow to the Advanced**IQ** Vent Controller. Once the desired system gas composition is reached the controller will automatically close and stop the venting process thereby preventing continuous venting. One AVC is capable of individually controlling and monitoring up to six (6) ECS Dry Vents on six (6) separate fire sprinkler systems.

The Advanced**IQ** Human Machine Interface (HMI) display screen allows for easy operation and complete control of the AVC as well as the ability to monitor from anywhere in the world via ECS **Green**Sight. Access to AVC operation, maintenance, diagnostics and stored historical data is easily obtained through the HMI screen on the vent controller or remotely through the internet via ECS **Green**Sight.

## Specifications

| | |
|---|---|
| **Cabinet Dimensions** | 12” (W) x 14” (H) x 8” (D)<br>305mm (W) x 356mm (H) x 203mm (D) |
| **Weight** | 24 Lbs (11 kg) |
| **Power Supply**<br>**(dedicated circuit)** | 120-240VAC, 50-60Hz/.5A |
| **Sensing Inputs** | Six (6) |
| **Internet Connection** | LAN |
| **Signal Output** | Common Trouble |
| **Temperature Range** | 40˚F - 105˚F (5˚C - 40˚C) |
| **Sample Connection** | 5/32” plastic tubing quick connect |
| **Max Tubing Length** | *350ft per zone |

*Dependent on system pressure and orifice size

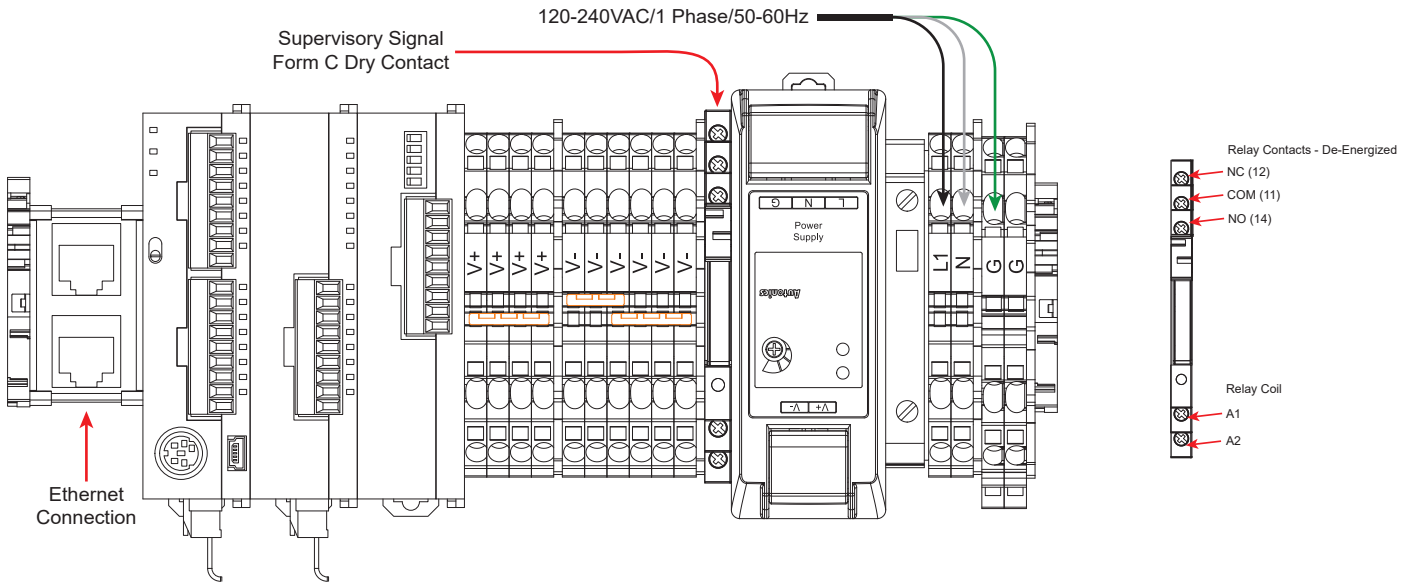
## Installation

The ECS Advanced**IQ** Vent Controller is designed to be mounted directly to the wall at the installation location inside the riser room. Allow access to the front of the cabinet and place the unit in a location near standard vents, and a dedicated electrical connection. For detailed installation and operation please refer to the ECS Advanced**IQ** Vent Controller Manual.

## Wiring Diagrams

Common supervisory Signal activates upon the following conditions:

1. Any sprinkler system in the venting mode that did not reach 98% purity within fourteen (14) days
2. Any sprinkler system that completed the venting mode and falls below 98% purity




## Cabinet Dimensions