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

General Description

The ECS Advanced**IQ** Vent Controller 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 Standard 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 Standard Vent connected to the controller. Over a fourteen (14) day period, the ECS Standard Vent will dilute the oxygen concentration in the fire sprinkler system to <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 Standard Vents on six (6) separate fire sprinkler systems.

The Advanced**IQ** 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)
Weight	24 Lbs
Power Supply (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.

Cabinet Dimensions

5/32" Flexible Tubing
Push to Connect
6X

$\emptyset$.31
$\emptyset$8.0 mm
4X

AVC-6

14.75
374.7 mm

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AdvancedIQ Vent Controller

10.00
254.0 mm

13.13
333.4 mm

1/2" - 3/4" Knockout
3X

POWER
OFF   ON

15.63
397.0 mm

8.40
213.4 mm

Rev 0