ECOVENT INTELLIGENT CONTROLLERS

DESCRIPTION

The EcoVent Controller is a tailored solution, designed to efficiently manage the ventilation equipment in enclosed or semi-enclosed spaces that contain harmful vehicle exhaust. It helps maintain good air quality when vehicle traffic is high and conserve energy when it is low.

The EcoVent Controller works in conjunction with Fantech's JetVent fans, CO and NO_2 pollutant sensors, integrated smoke detectors, supply and exhaust fans, variable speed drives and the BMS. It has been developed to help increase the energy efficiency of a car park, while ensuring the ventilation output is optimized. The EcoVent Controller will vary the operating speed of the car park fans according to the level of vehicle exhaust pollutants in the environment.

The EcoVent Controller can be connected to the fire system in the building to manage the automatic starting/stopping of the fans when a fire is detected (depending on fire/smoke management strategies), and control the fans at the Fire Indicator Panel (FIP) by manual speed control. Some applications also require links from the BMS to monitor the operation of the JetVent system.

For car parks with ducted systems
The EcoVent Controller can also be installed with new and existing ducted ventilation systems installed in applications such as commercial and residential car parks. It helps reduce energy usage by ensuring the exhaust and supply fans only operate when needed and at the speed required. The EcoVent Controller uses CO and NO_2 pollutant sensors to read the level of pollutant in the space and then relay this to variable speed drives that modulate the fan speed.
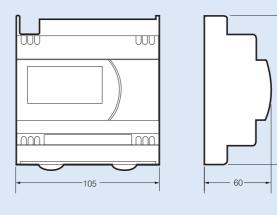
Features
- Digital EC model: Controls up to 24 JetVent Fans and 6 Vacon VSDs via MODbus. Monitors up to 48 pollutant sensors and 24 smoke detectors.
- Analogue model: Controls up to 16 Jetvent fans and Monitors up to 22 pollutant sensors.
- Factory pre-configured to suit specific car park requirements.
- Quick and easy to install and commission.
- Proportional control of all fans according to pollutant levels monitored.
- BACnet connectivity for fire mode activation with manual/automatic shut-off modes of operation.
- Fresh air purge timer function.
- Standalone or connects to a BMS via RS485, BACnet IP, BACnet ms/tp and MODbus.

TECHNICAL DATA

Model Number JCC-..	Control System	Protection Class	Connectivity	Expansion Module Quantity
DIG1-SB	Digital EC	IP40 Front panel only	- Up to 24 JetVent fans. - Up to 48 pollutant sensors. - Up to 24 smoke detectors.	0
ANA1-SB2	Analogue	IP40 Front panel only	- Up to 16 JetVent fans. - Up to 2 pollutant sensors.	0
ANA1-SB6	Analogue	IP40 Front panel only	- Up to 16 JetVent fans. - Up to 6 pollutant sensors.	1
ANA1-SB10	Analogue	IP40 Front panel only	- Up to 16 JetVent fans. - Up to 10 pollutant sensors.	2
ANA1-SB14	Analogue	IP40 Front panel only	- Up to16 JetVent fans. - Up to 14 pollutant sensors.	3
ANA1-SB18	Analogue	IP40 Front panel only	- Up to 16 Jetvent fans. - Up to 18 pollutant sensors.	4
ANA1-SB22	Analogue	IP40 Front panel only	- Up to 16 JetVent fans. - Up to 22 pollutant sensors.	5

DIMENSIONS

110
105
60

Dimensions in mm