

AVIATOR MINI CONTROLLER



DESCRIPTION

The compact Aviator MINI Controller is a tailored solution designed to efficiently manage small car park, sports stadiums and warehouse facilities ventilation to help maintain high standard of air quality. It has been developed to increase the energy efficiency of these facilities, while ensuring the air mixing and ventilation requirements are optimised.

Aviator MINI works in conjunction with mixing fans, pollutant sensors, VSDs, supply/Exhaust fans and Building Management Systems. The MINI controller can be factory configured to match your application requirements

Features

- AS1668.2 compliant atmospheric contaminant monitoring system
- Connect up to 50 EC mixing fans
- Connect up to 16 Danfoss VLT Drives
- Connect up to 20 Fieldbus Sensors
- Connects to either 4.3" or large 7" Aviator touch screen graphic user interface GUI
- Connects to BMS for easy system monitoring; Modbus or BACnet
- 1 mechanical switch board connections for Supply/Mixer/Exhaust fan groups with On/Auto/Off modes of operation
- 6 demand zones and one fire zone operation
- Integrated Smoke detection system for quick shut down
- Purge timer with real time clock and run indicator alarm
- Includes up to 20 program schedules
- Relays for alarms, run indication, level control and enables

Standard I/O

- 6 x Digital inputs
- 2 x Digital outputs
- 4 x Analogue inputs
- 7 x Analogue outputs (relay)

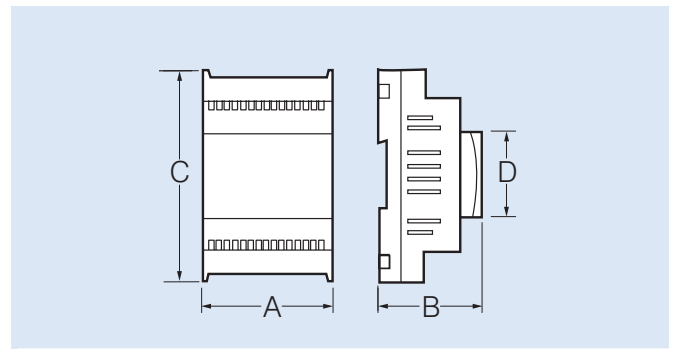
Ports

- Modbus to touchscreen
- 1 x Ethernet port
- Modbus to fan and drives

ANCILLARY EQUIPMENT



DIMENSIONS



Model Number	Dimensions, mm				Kit includes
	A	B	C	D	
DCV-CU-MINI1	70	60	110	45	Controller, connectors & power supply

AVIATOR MINI CONTROLLER

CONTROL SYSTEM LAYOUT



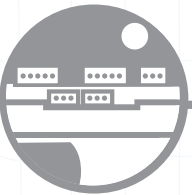
Connects to Fire Panel (FDCIE)

For General Fire Alarm and JetVent On/Auto/Off requirements



Connects to Mechanical Services Switchboard (MSSB)

Inputs for On/Auto/Off of all fans as one group



Connects to on board general control

- Alarm indication
- Sensors
- Relays
- Two speed relays
- Run indication
- 0-10Vdc signals



ComLink



Controls up to 50 EC Fans

- Fantech EC fans
- JetVent EC fans
- Hunter EC HVLS fans



Connects up to 16 Danfoss VLT Variable Speed Drives

- Supply, mixer and exhaust modes



Connects to each fan or Variable Speed Drive

- Up to 2 CO, NO₂ or temperature sensors
- Up to 2 Smoke Detection Points



Connects to a maximum of 20 ComLink sensors (Field Bus)

- CO
- NO₂
- Temperature

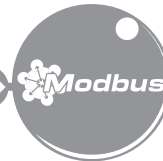


Connects to BMS

- BACnet/IP
- BACnet MS/TP



Connects to Integrated Web Server



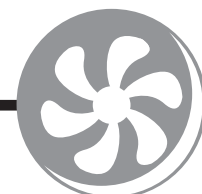
Connects to BMS

- Modbus TCP
- Modbus RTU



Connects to Aviator GUI

With integrated temperature and humidity sensors



Connects to Fantech supply and exhaust fans

An extensive range of sizes and types available