

AVIATOR

Intelligent Ventilation Control

Tailored air movement control solutions

Elta Fans is committed to the ongoing development of innovative technologies that are designed to optimise the indoor environment and lower energy consumption. In addition, the continuous increase of energy prices is driving greater demand for cost effective systems that can deliver energy efficient buildings. These systems are helping to create healthier and more productive spaces while providing centralised system monitoring and remote diagnostics.

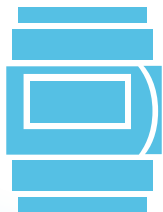
The innovative range of Aviator Control Systems is designed to manage from one fan to a large system with multiple fans and sensors. Aviator controllers take advantage of the latest digital technology to ensure they can be tailored to suit the requirements of almost any ventilation application.

Aviator controllers can reduce on-site commissioning and installation time as they do not require specialised programming knowledge. Aviator is a flexible Demand Control Ventilation system that monitors the indoor environment and provides real time feedback to the fans. This adjusts the fan speed and modulates the ventilation rate to match the specific requirements of the area.

There are 3 Aviator models available; the Aviator Touch PRO, the Aviator MINI and the Aviator MAX.



Aviator Touch
PRO



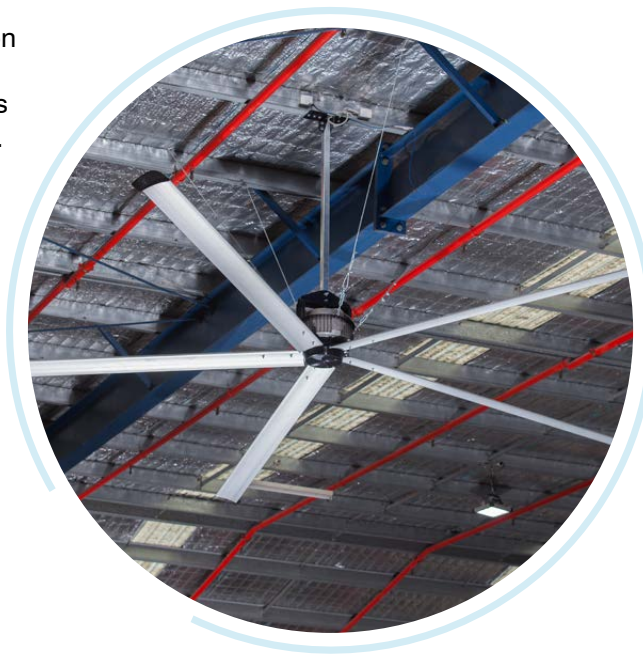
Aviator
MINI



Aviator MAX



Aviator controllers utilise the Elta Fans ComLink system (RS485) to connect the controller, fans, VSDs and sensors together. This intelligent system provides reliable two-wire communication between devices, simplified cabling and a greater level of system adjustment.





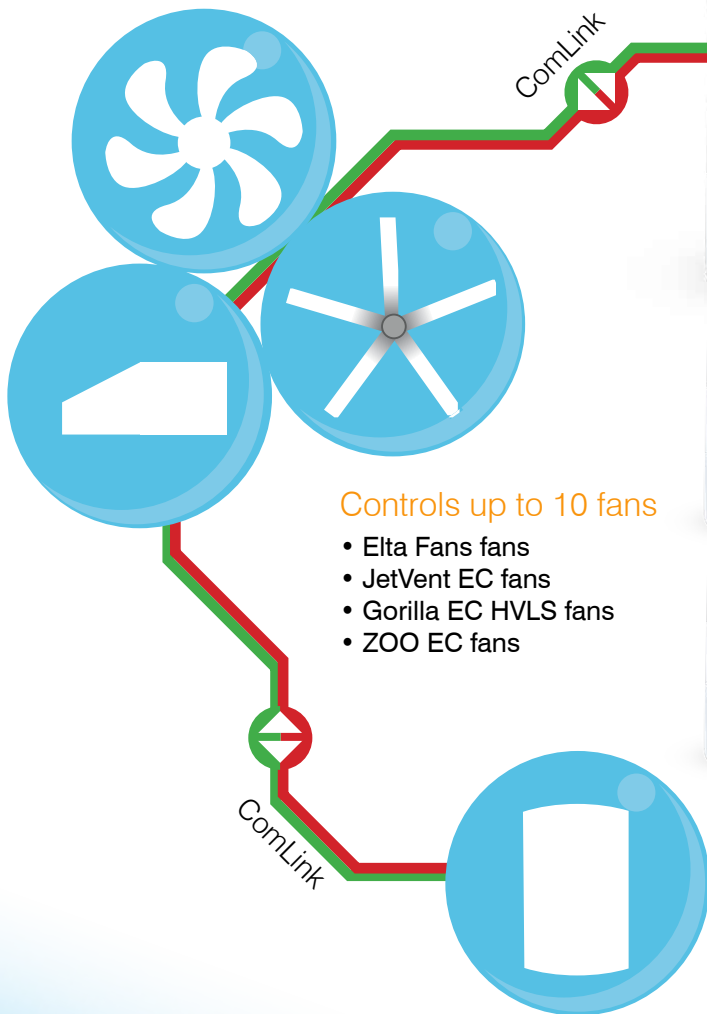
Aviator Touch PRO

Easy to use and navigate

The Aviator Touch PRO features an intuitive graphic interface that makes it easy to use and navigate. It features a high definition 4.3" LCD touch screen, and integrated temperature and humidity sensors. It is ideal for most small to medium sized ventilation applications such as warehouses and sports pavilions.

It is designed to manage a small network of up to 10 fans and be connected to 2 Sensors. This innovative controller simplifies installation and comes factory preconfigured to suit the needs of specific applications. The Aviator Touch PRO can operate each fan individually or help drive a Demand Control Ventilation system.

- Compatible with Temperature, Humidity, CO, CO₂ & NO₂ sensors
- Can manage one demand control zone
- 7 day scheduler enables set-up of operational periods
- Can be set in Demand Control or manual operation modes
- Includes air quality indicator light on front face
- Adjustable set points



Controls up to 10 fans

- Elta Fans fans
- JetVent EC fans
- Gorilla EC HVLS fans
- ZOO EC fans



Each fan connects to a maximum of 2 ComLink Sensors (Field Bus)

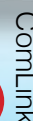
- CO
- NO₂
- CO₂
- Temperature
- Humidity

AVIATOR
Intelligent Ventilation Control



Aviator MINI is the ideal controller for most types of commercial AC or EC fans. Its large capacity allows it to manage ventilation systems for high ceiling installations and general ventilation applications. It's easy and simple to use, and can be set in Demand Control or manual operation modes.

- Connects up to 20 sensors; temperature, humidity, CO₂, CO and NO₂
- Connects to BMS - BACnet or Modbus for easy system monitoring
- Advanced seven day program scheduler
- Connects to Aviator PRO for its intuitive graphic interface
- Simplifies on-site installation and commissioning



- Elta Fans fans
- JetVent EC fans
- Gorilla EC HVLS fans
- ZOO EC fans

Each fan connects to a maximum of 20 ComLink sensors (Field Bus)

- CO
- NO₂
- CO₂
- Temperature
- Humidity



Connects to on board general control

- Alarm Indication
- Sensors
- Relays
- Run Indication
- Louvers for supply and/or exhaust

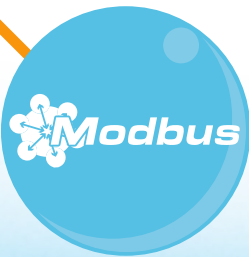


Connects to BMS

- BACnet/IP



Connects to Integrated Web Server



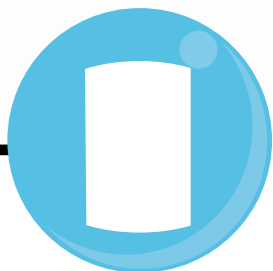
Connects to BMS

- Modbus TCP



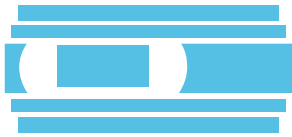
Connects to Aviator Touch PRO

With integrated temperature and humidity sensors



Connects each fan to 1 sensor

- CO
- NO₂
- CO₂
- Temperature
- Humidity



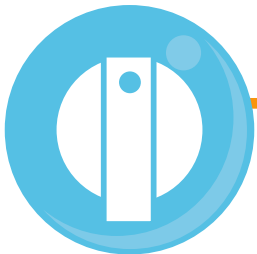
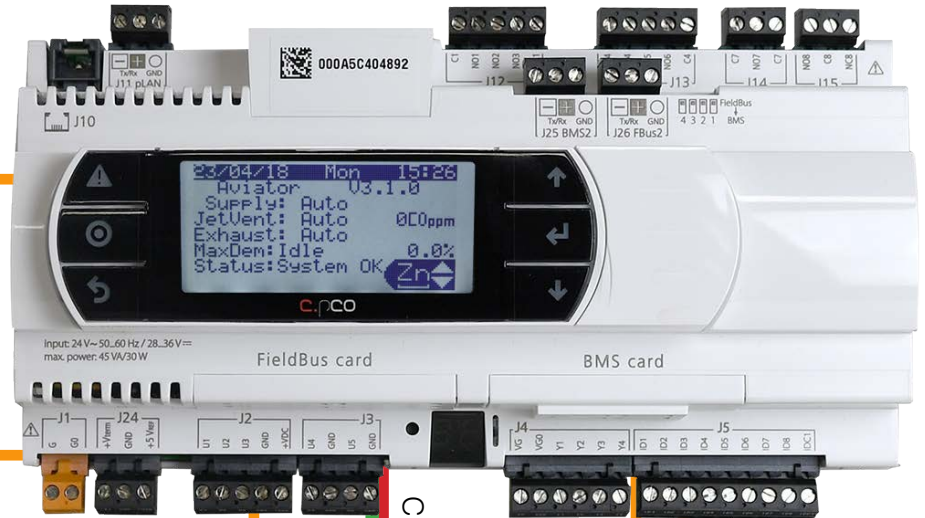
Aviator MAX

Ideal for commercial car park applications



Connects to Fire Panel (FDCIE)

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



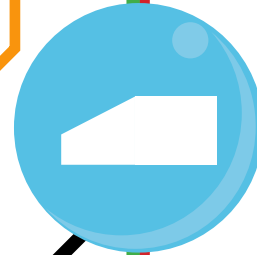
Connects to Mechanical Services Switchboard (MSSB)

Inputs for On/Auto/Off of JetVent, supply and exhaust fan groups



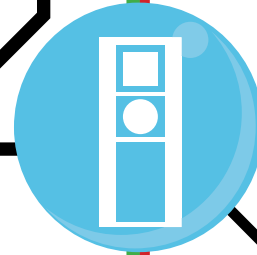
Connects to on board general control

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



Controls up to 50 JetVent fans

- Digital EC JIU-CPCEC Series
- With isolator or smoke detector



Connects up to 12 Vacon Variable Speed Drives

- Vacon models 100 & 20
- Supply & 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)

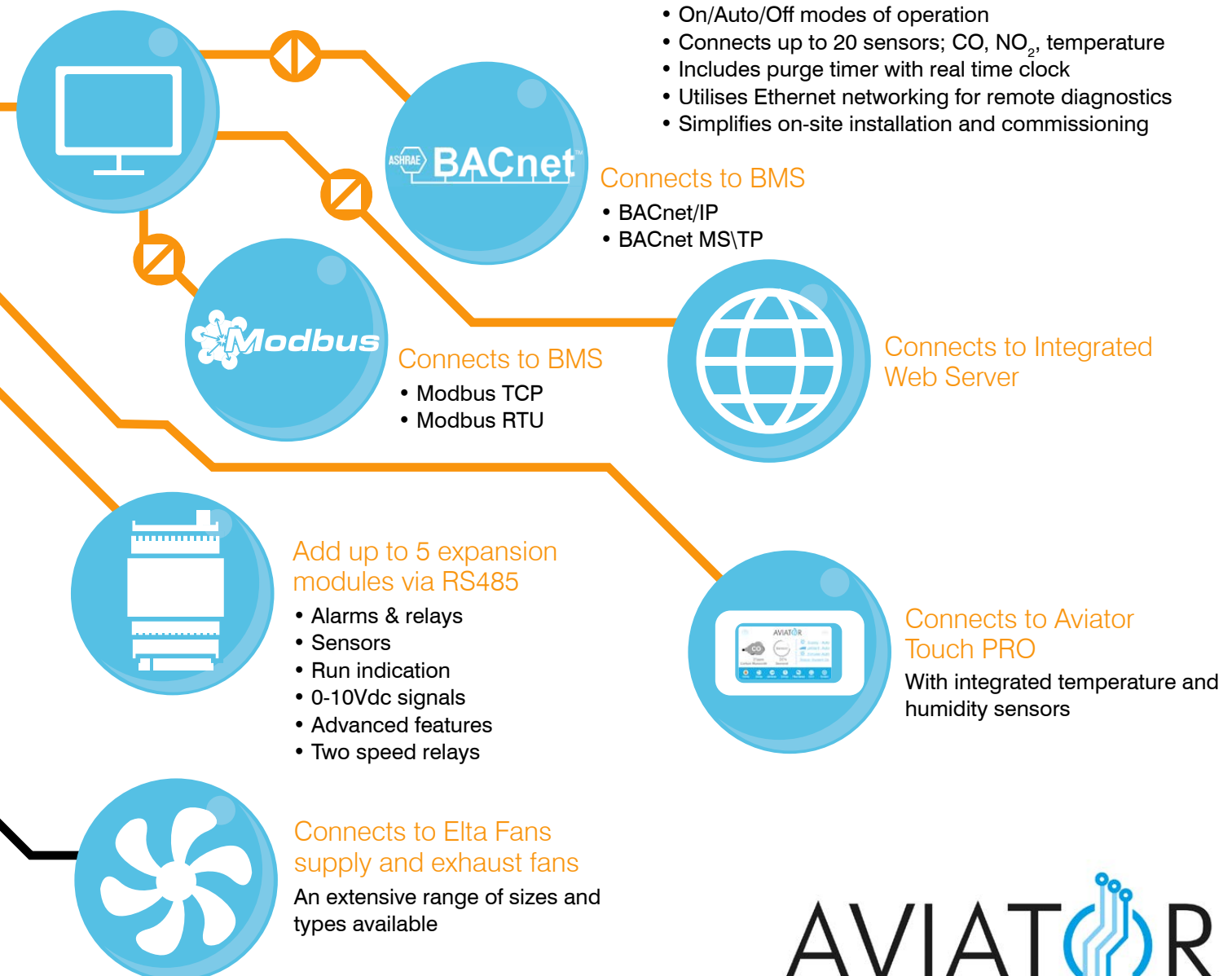
- CO
- NO₂
- Temperature

The Aviator MAX Control System is a tailored solution designed to efficiently manage the car park ventilation equipment. It has been developed to increase the energy efficiency of a car park, while ensuring the ventilation output is optimised. Aviator MAX works in conjunction with JetVent fans, CO and NO₂ pollutant sensors, VSDs, supply/exhaust fans and the Building Management System. Its large capacity enables it to manage up to 50 JetVent fans within a maximum of 6 demand control zones.

Aviator MAX is a flexible Demand Control Ventilation system that comes factory preconfigured to suit the requirements of each car park. As the pollutant levels change within the car park over the course of a day, the Aviator system increases and decrease the fan speed to adjust the ventilation rate accordingly.

Aviator MAX can be configured to receive a fire alarm signal from the building's fire system. This will start and stop the connected JetVent fans and supply/exhaust fans in accordance with the fire control strategy. Aviator's easy to use interface enables the manual start/stop control of JetVent fans from the fire panel.

- Connects to BMS - BACnet or Modbus for easy system monitoring
- Optional integrated smoke detection system for quick shut down
- Independent MSSB and Fire Panel connectivity
- Capable of one fire zone
- On/Auto/Off modes of operation
- Connects up to 20 sensors; CO, NO₂, temperature
- Includes purge timer with real time clock
- Utilises Ethernet networking for remote diagnostics
- Simplifies on-site installation and commissioning





AVIATOR System Components



Aviator Controllers

			
Aviator MAX Controller DCV-CU-MAX1	Aviator MINI Controller DCV-CU-MINI1	Aviator Touch PRO Controller DCV-CU-TOUCH -PRO1	Aviator Touch Controller DCV-CU-TOUCH-SCR1




Accessories

	
Aviator Expansion Kit DCV-CU-EXPANSION1	Aviator ComLink Repeater DCV-CU-REPEATER1

Drives

	
Danfoss \ Vacon Drives HVAC series VACON 100 HVAC	Danfoss \ Vacon Drives HVAC series VACON 20

Sensors

		
CO 4-20mA Sensor DCV-LPT-TCO	CO Modbus Sensor DCV-GSTC-C	Temperature & Humidity 4-20mA Sensor (Optional LCD Available) DCV-RHP-3N44
NO₂ 4-20mA Sensor DCV-LPT-END	NO₂ Modbus Sensor DCV-CGTC-N	Temperature & Humidity Outdoor 4-20mA Sensor (Optional LCD Available) DCV-RHP-3S11
LPT Protective Guard DCV-LPT-GUARD		Temperature & CO₂ 4-20mA Sensor (Optional LCD Available) DCV-CDT-2N44
		Temperature, CO₂ & Humidity Modbus Sensor (Optional LCD Available) DCV-CDTA-2N000

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