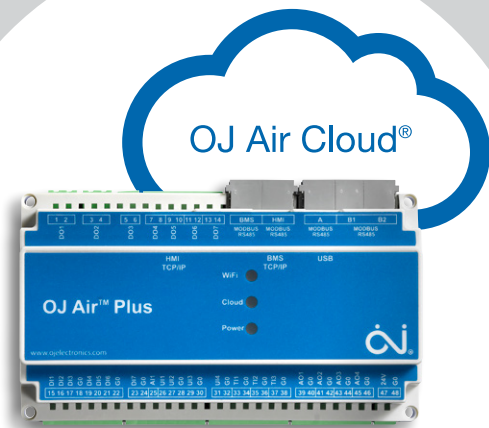


Ventilation Controller



OJ Air™ Plus

- Ready-to-use control platform
- Intuitive web-based configuration
- Built in WiFi access
- BMS and Modbus connectivity
- OJ Air Cloud® service

OJ Air™ Plus system

The OJ Air™ Plus system has been specially designed to control a wide range of air handling units. It forms a complete control solution, where components, the BMS and Cloud services are seamlessly integrated and optimized.

The OJ Air™ Plus is the system's central controller – pre-programmed for approximately 90% of all known applications and easily configured via an intuitive browser-based interface. Built-in flexibility and a comprehensive range of system components give you a versatile control solution for your current and future ventilation portfolio.

The OJ Air™ Plus system can be scaled to meet customer needs, and is designed to ensure efficient installation, fast AHU commissioning, energy-efficient operation, and minimum maintenance costs.

Easy configuration and commissioning

An intuitive browser-based interface enables full controller configuration and commissioning without any specialized programming skills. Five predefined user profiles ensure that each role has access only to the functions required for their tasks. Service personnel can perform standard operations immediately, reducing service costs and accelerating commissioning, while advanced indoor climate control and energy optimization parameters are restricted to qualified users.

In addition, commissioning reports can be generated directly from the controller, fully documenting parameter settings to ensure correct operation from day one.

Smart access

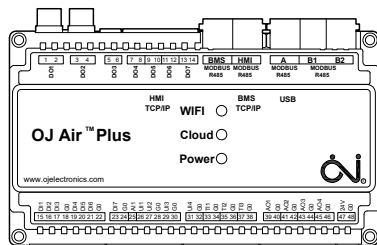
An integrated WiFi Access Point gives technicians direct wireless access to settings on site – without having to access the customer's network. This enables faster, safer and simpler commissioning and support.

Using OJ Air Cloud™, service partners and manufacturer specialists can even access settings remotely for instant error notifications, quick troubleshooting, and seamless remote support. All this adds up to faster fault handling, less downtime, and significantly lower service and operating costs.

Comprehensive integration

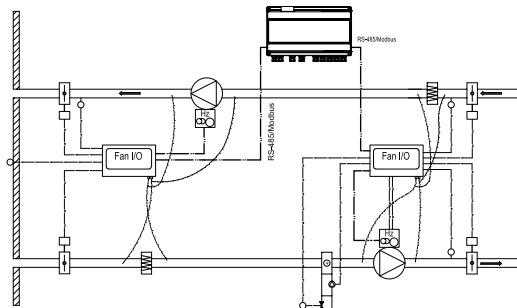
The OJ Air™ Plus provides multiple I/O and communication ports, pre-programmed for seamless communication with BMS systems and a wide range of OJ Electronics components via Modbus. These components include touch control panels, pressure and temperature transmitters, and drives for compressors, fans, and rotor heat recovery. Third-party fans are also supported via Modbus.

The user interface includes pre-designed faceplates for connected components, making operation more intuitive, reducing commissioning time, and simplifying diagnostics.



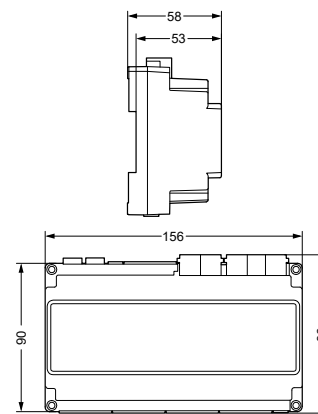
BR1062A10a

Connection



BR969A01a

Application example



BR-0970A04a

Dimensioned drawing

Unit installation

The OJ Air™ Plus is mounted on 35 mm DIN rails in an enclosure with the appropriate classification for the location where it is installed. The control must be supplied with 24 V AC or 24 V DC power.

PRODUCT PROGRAMME

TYPE	PRODUCT
AHU controller	
OJ-AIR-PLUS-A3	OJ Air™ Plus AHU controller AC/DC
OJ-AIR-PLUS-A6	OJ Air™ Plus AHU controller DC
OJ-AIR-PLUS-CONNECT	OJ Air Plus screw connect kit
OJ-AIR-PLUS-CONN-SP	OJ Air Plus spring connect kit
HMI touch panels	
OJ-AIR-PLUS-HMI-35T	OJ Air Plus Touch HMI 3.5"
OJ-AIR-PLUS-HMI-20T	OJ Air Plus Touch HMI 2"
IO extension modules	
OJ-AIR2EXT	QuickPlug™ I/O Add-on module
Sensors - air quality, pressure, temperature	
VTH-6202	QuickPlug™ VOC air quality sensor
HTH-6202	QuickPlug™ Humidity and temperature sensor
PTH-3202	Pressure transmitter
PTH-6202	QuickPlug™ Pressure transmitter
PTH-6202-2	QuickPlug™ Dual pressure transmit./temp.
OJ-AIR2FANIO	QuickPlug™ Dual pressure transmitter/IO
OJ-AIR2FANIO21	QuickPlug™ Dual pressure transmitter/IO
TTH-6202	QuickPlug™ Duct temperature sensor Modbus
TTH-6040-W	QuickPlug™ Room temperature transmitter
TTH-6040-O	QuickPlug™ Outside temperature transmitter
ETF-xx98	PT-1000 Temperature sensor
ETF-xx22/44	NTC 12K Temperature sensor
OJ Drives™	
OJ-DV	QuickPlug™ Drives for ventilation fans
OJ-DC	QuickPlug™ Drives for compressors
OJ-DRHX	QuickPlug™ Motor control rotor heat recovery
Accessories	
OJ-AIR2SPLIT	DIN-rail cable connection point
OJ-AIR2PWR80	Power supply, 230 V to 2 x 24 V AC

TECHNICAL DATA

Data for OJ-AIR-PLUS-A3	
Supply voltage	24 V DC or 24 V AC (nominal)
Supply range	23.0 V DC to 30.0 V DC or 24 V AC +/-10% 50/60 Hz
Load on port B1 and B2 in total	+24 V DC output, max. 260 mA
Data for OJ-AIR-PLUS-A6	
Supply voltage	24 V DC (nominal)
Supply range	24 V DC +/-5%
Load on port B1 and B2 in total	+24 V DC output, max. 2500 mA
Electrical connection	Terminals 1–4: Max. 4 mm ² Terminals 5–48: Max. 1.5 mm ²
OJ Air Cloud™	Via TCP/IP port
BMS protocols	BACnet TCP/IP Modbus TCP/IP Modbus RTU
BMS TCP/IP port	10/100 Mbit Ethernet, RJ45 socket
HMI TCP/IP port	10/100 Mbit Ethernet, RJ45 socket
WiFi	IEEE 802.11b/g Open/WPA2 PSK
Modbus RS485 port	5 x RJ12 (6P6C) Socket
USB port	USB 2.0 /USB 1.1 max. 100 mA
Universal inputs	4 Digital/Analogue/Sensor
Digital inputs	7 (11) x internal pull-up 2 x potential free contact relay, 230 V AC 3A/ 24 V DC 3 A, 5 x potential free contact relay, 24 V AC/DC 3A
Digital outputs	
Analogue inputs	1 (5) x 0-10 V
Analogue outputs	4 x 0-10 V
Sensor inputs	3 (7) x PT-1000 / NTC 12K
Ambient temperature, operation	-40/+50°C
Ambient temperature, storage	-50/+70°C
Dimensions	156 x 96 x 58 mm
Enclosure	IP20, ABS
Weight	312 g

CE marking

OJ Air™ Plus complies with the requirements of the following directives:
EMC Directive: EN 61000-6-2, EN 61000-6-3
Low Voltage Directive: EN 60730-1
The RED Directive: ETSI EG 203 367

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