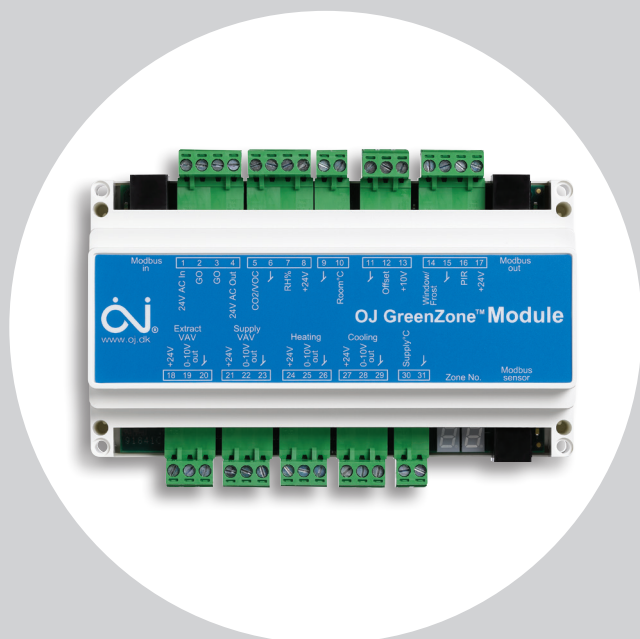


## OJ GreenZone™ – Zone-controlled VAV system



## OJ-Zonemodul-A

- Energy-saving VAV operation
- Standard 0-10 V signals
- Air quality and temperature
- QuickPlug™ installation
- Automatic configuration
- 2" touchscreen

The OJ GreenZone™ system is tailored for energy-optimised operation and comfort control in buildings with VAV dampers. Air-exchange and temperature are adjusted as needed in up to 125 zones per AHU.

In conventional solutions, where pressure is held constant in the ventilation system supply ducts, an OJ Zone Module A is used in each room along with a standard 0-10 V VAV damper. Energy savings are achieved through demand control.

OJ Zone Module A demand-controls ventilation on the basis of the connected temperature, VOC, CO<sub>2</sub> or humidity sensors, which are detected automatically.

The module is installed together with an OJ Zone Master in a network, thus providing energy-optimised operation. The user can adjust room comfort by connecting a colour touchscreen.

### Flexibility is standard

Standard 0-10 V inputs and outputs ensure great flexibility and there is a free choice of VAV dampers, valves and sensors from acknowledged manufacturers.

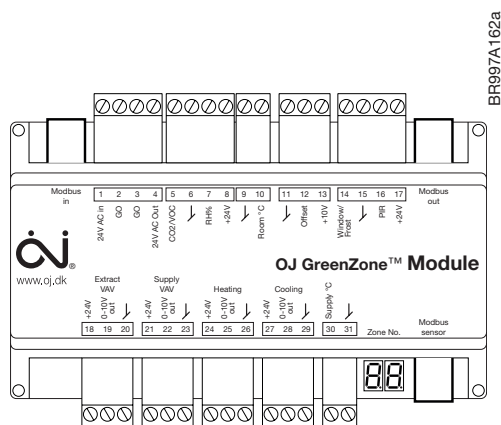
Installation errors and time-consuming troubleshooting in the zone network are eliminated thanks to the QuickPlug™ Modbus connections.

### Simple configuration

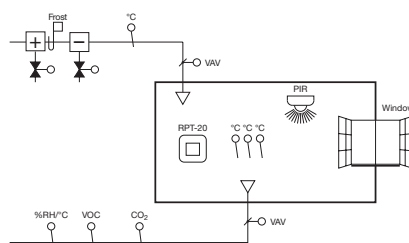
The OJ GreenZone™ system features auto-configuration capability with which the OJ Zone Master itself allocates a unique address to each individual zone module. There are no complicated DIP switches and no risk of network blockages due to random address conflicts.

### Colour touchscreen

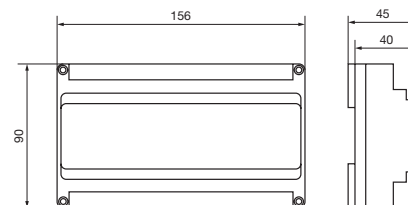
The air exchange and temperature of the zone can be adjusted to a required comfort level by means of a user-friendly wall-mounted 2" colour touchscreen. Technicians and system managers have access anytime, anywhere via the OJ Zone Master Web app.



Connection



Application example



Dimensions

### Flexible room changes

If the wall is moved or removed because of a change in use of the building, the zone module can, in just a few seconds, be set to work together with the other modules in the same room. A nice comfortable setting can be maintained in larger rooms with average temperature measurements from several room temperature sensors.

### Immediate feedback

As soon as the OJ Zone Module detects a sensor, the associated symbol is shown on the 2-digit screen along with the allocated address. Correct bus communication is indicated by flashing LEDs. It has never been easier to check that the installation is OK.

### Zone Module beeper

Zone Modules have a built-in beeper which can be activated from the Zone Master's Web app, allowing instant location of a Zone Module installed above a lowered ceiling with numerous ceiling panels. It's quicker to remove one ceiling panel than ten.

## INSTALLATION

### Controller installation

OJ Zone Module A should be installed on a 35 mm DIN rail in an enclosure that corresponds to the classification of the installation location. The module must be supplied with 24 V AC.

### Cable connections

Cables are connected to screw terminals for wires of max. 1.5 mm<sup>2</sup>. Zone Modules are connected in a network with QuickPlug™ Modbus connections using a standard telecom cable, e.g. INEC TD6006, fitted with RJ12 connectors.

## PRODUCT PROGRAMME

TYPE	PRODUCT
OJ-Zonemodul-A	OJ GreenZone™ Module Analogue
OJ-Zonemaster	OJ GreenZone™ Master
OJ-RPT-20T	OJ GreenZone™ 2" room panel
TTH-6202	Duct temperature transmitter
TTH-6040-W	Room temperature transmitter
HTH-6202	Humidity and temperature transmitter
VTH-6202	VOC transmitter (air quality)
ETFWP-998	PT1000 wall-mounted potentiometer
ETF-1098L1-4	PT1000 duct temperature sensor
EFT-998-H	PT1000 room temperature sensor
OJ-Air2 PWR80	Power supply: 230 V AC to 2x24 V AC, 2x60 VA
ETT-KH	Cover for wall mounting

## TECHNICAL DATA

Supply voltage	24 V AC ±10%, 50 Hz
Power consumption	< 2.3 VA
Electrical connection	screw terminals, max. 1.5 mm <sup>2</sup>
QuickPlug™ Modbus	3 x RJ12 (6P6C)
Analogue outputs	4 x 0-10 V DC
Digital inputs	2 x internal pull-up
Analogue inputs	3 x 0-10 V DC
Sensor inputs	2 x PT1000
Ambient operating temperature	-20/+40°C
Dimensions	156 x 90 x 45 mm
Enclosure	IP20, ABS
Weight	270 g

### CE marking

OJ Zone Module A meets the requirements of the following directives:

EMC Directive	Low Voltage Directive
EN-61000-6-2	EN 60730-1
EN-61000-6-3	