

OJ Air2 AHU control system



OJ-Air2WP55

- Room temperature
- Setpoint offsetting
- Wall-mounting
- PT1000 sensor
- 0-10 V output

The OJ Air2 system has been specially designed to control air handling units and forms a complete control system where all components are fully integrated and optimised.

The OJ-Air2WP55 is used when the ventilation system is heating a room, and the user needs to be able to adjust the temperature setpoint.

The OJ-Air2WP55 has both a built-in room temperature sensor as well as a potentiometer for setpoint offsetting.

High level of user satisfaction

Studies have shown that the users become more satisfied when they have an influence on the temperature.

With the OJ-Air2WP55, the temperature setpoint can be adjusted up to $\pm 5^{\circ}\text{C}$, and there is no risk that the setpoint will be wrong.

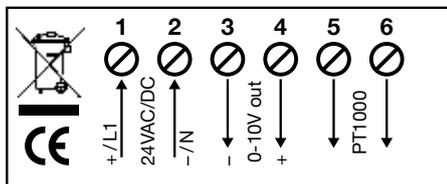
Energy-saving ventilation

When the fan has been stopped, the room temperature is measured much more precisely with the OJ-Air2WP55 than with a temperature sensor that is built into an air duct or air handling unit. The energy-saving ventilation functions, such as night heating and summer night cooling, become significantly more efficient.

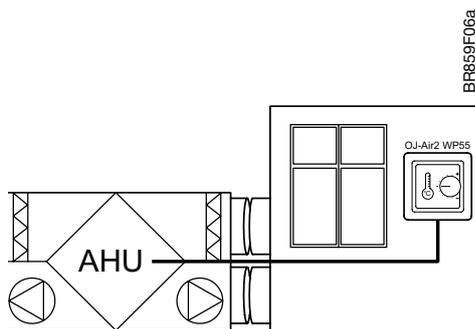
Simple installation

The OJ-Air2WP55 uses traditional analogue signals, and the wiring connection can be checked with a common voltmeter. The sensor is a PT1000 element and the setpoint offset a 0-10 V signal. The associated functions are preprogrammed in the OJ-Air2Master and are selected by a mouse click.

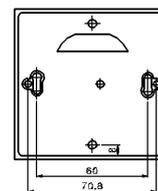
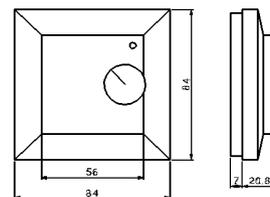




Connection



Application example



Dimensioned drawing

BFR859A04

INSTALLATION

Installation of the room sensor

The OJ-Air2WP55 should be installed on a flat surface approx. 1.5 m above the floor so that the air is able to circulate freely around it. Avoid placing in draughts and direct sunlight or in the vicinity of heat sources.

Cable connections

A 6-wire cable is connected in screw terminals and may max. be 1.5 mm². Connection to the OJ Air2 system typically takes place in a terminal strip close to the OJ-Air2Master or in a control panel.

PRODUCT PROGRAMME

TYPE	PRODUCT
OJ-Air2WP55	Room sensor with setpoint adjustment
OJ-Air2Master	AHU controller

TECHNICAL DATA

Supply voltage	24 V AC/DC +/-10%
Frequency	50/60 Hz
Power consumption	1 W
Electrical connection	Max. 1.5 mm ² , screw terminals
Analogue outputs	1 x 0-10 V DC 1 x PT1000 temperature sensor
Amb. operating temperature	-10/+40°C
Dimensions	84 x 84 x 28 mm
Enclosure	IP20
Weight	90 g

CE marking

The OJ-Air2WP55 complies with the requirements of the following directives:

EMC Directive
 EN 61000-6-2
 EN-61000-6-3