OJ ELECTRONICS
KNOW-HOW CREATES

HVAC
CONTROLS & POWER

FLOOR HEATING
ELECTRIC

FLOOR HEATING
HYDRONIC

OJ GreenZone™ room panel with touch screen

OJ-RPT-20T

- OJ GreenZone™ compatible
- User-friendly
- Colour touchscreen
- Built-in temperature sensor
- Weekly program
- QuickPlug™ installation

OJ RPT-20T is specifically designed to adjust ventilation in a single room and is used together with an OJ Zone Module. Users can change the air-exchange rate, temperature and weekly program from the colour touch screen.

OJ RPT-20T ensures maximum room comfort and low energy consumption. The room panel is ideal for offices, schools, shopping centres, airports, hotels, hospitals, etc.

OJ RPT-20T is installed together with an OJ Zone Module, thus saving energy by demand controlling each room. The rooms are connected in a network containing an OJ Zone Master to obtain energy-optimised operation.
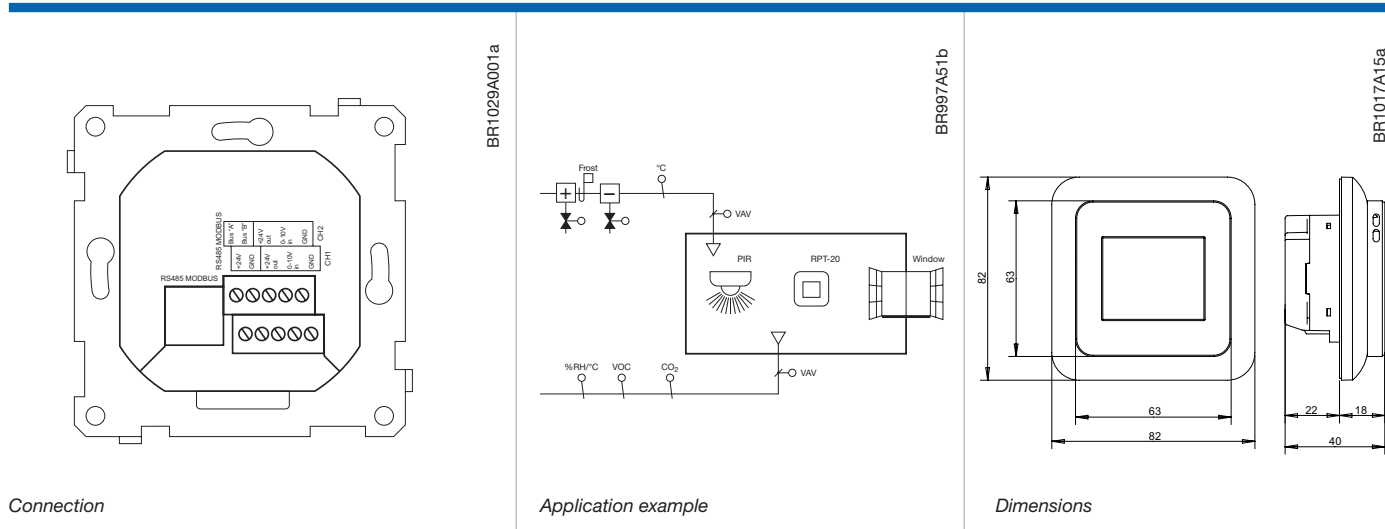
User-friendly comfort
The 2" colour touchscreen utilises a simple and intuitive user-interface, allowing everyone to easily adjust air-exchange rate and temperature so as to achieve the desired comfort level. Access to more advanced functions is protected by a password.

Built-in energy savings
When a user has manually increased the air-exchange rate, the system will automatically revert to energy-saving operation after a suitable period of time has elapsed. The weekly program is set intuitively according to room use with up to four setpoints a day. In auto mode, air-exchange is demand controlled, ensuring precise fulfilment of the room's ventilation needs.

Simple installation
OJ RPT-20 is connected to the OJ Zone Module using QuickPlug™ Modbus, thus eliminating installation errors and time-consuming troubleshooting. A quick overview of the installation is provided in the menu options Room data, Schedule, and Settings.

OJ ELECTRONICS A/S
STENAGER 13B
DK-6400 SØNDERBORG
DENMARK

T. +45 73 12 13 14
F. +45 73 12 13 13
OJ@OJELECTRONICS.COM
WWW.OJELECTRONICS.COM

OJ ELECTRONICS
KNOW-HOW CREATES

Connection

Application example

Dimensions

BR1029A001a

BR997A51b

BR1017A15a

Optional CO_2 and/or humidity sensor

OJ RPT-20 has a built-in temperature sensor for cost-effective basic solutions. In more demanding applications, additional sensors will be required in the rooms. Two standard 0-10 V inputs ensure great flexibility and there is a free choice of CO_2 and humidity sensors from acknowledged manufacturers.

INSTALLATION

Room panel installation

OJ RPT-20 should be installed in a wall box approx. 1.5 m above the floor in a position where air can circulate freely around it. Avoid positioning it in draughts and direct sunlight or in the vicinity of other heat sources.

Cable connections

OJ RPT-20 is connected to the Zone Module by means of a QuickPlug™ Modbus connection using a standard telecom cable, e.g. INEC TD6006, fitted with RJ12 connectors. Alternatively, cables can be connected to screw terminals, in which case the wires must be max. 1 mm².

PRODUCT PROGRAMME

TYPE	PRODUCT
OJ-RPT-20T	OJ GreenZone™ 2" room panel
OJ-Zone Module MP	OJ GreenZone™ Module MP Bus
OJ-Zone Module M	OJ GreenZone™ Module Modbus
OJ-Zone Module A	OJ GreenZone™ Module Analogue

TECHNICAL DATA

Display	2" TFT colour touchscreen
Supply voltage	24 V DC ±10%
Power consumption	< 0.8 W
Electrical connection	screw terminals, max. 1 mm²
QuickPlug™ Modbus	1 x RJ12 (6P6C)
Room temperature sensor	Built-in
Analogue input, CO_2	1 x 0-10 V DC
Analogue input, RH%	1 x 0-10 V DC
Ambient operating temperature	-10/+40°C
Dimensions	82 x 82 x 41 mm
Installation depth	22 mm
Enclosure	IP21
Weight	80 g

CE marking

OJ RPT-20T meets the requirements of the following directives:

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