OJ ELECTRONICS
KNOW-HOW CREATES

HVAC
CONTROLS & POWER

FLOOR HEATING
ELECTRIC

FLOOR HEATING
HYDRONIC

Room temperature transmitter

TTH-6040-W

- Room temperature
- Wall-mounting
- Plug & Play with OJ Air2
- Plug & Play with OJ GreenZone™
- Modbus RTU
- I/O saving

The TTH-6040-W is a stylish temperature transmitter that is designed to measure the temperature in a room.

The TTH-6040-W is used in connection with ventilation, for example, for energy-saving night heating together with an air handling unit containing an OJ Air2 AHU control system.

The TTH-6040-W delivers the temperature digitally on Modbus RTU, and the measurement accuracy is not reduced by looses in cables or 0-10 V conversion in a subsequent system.

Energy-saving ventilation
When the fan has been stopped, the room temperature is measured much more precisely with the TTH-6040-W 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.
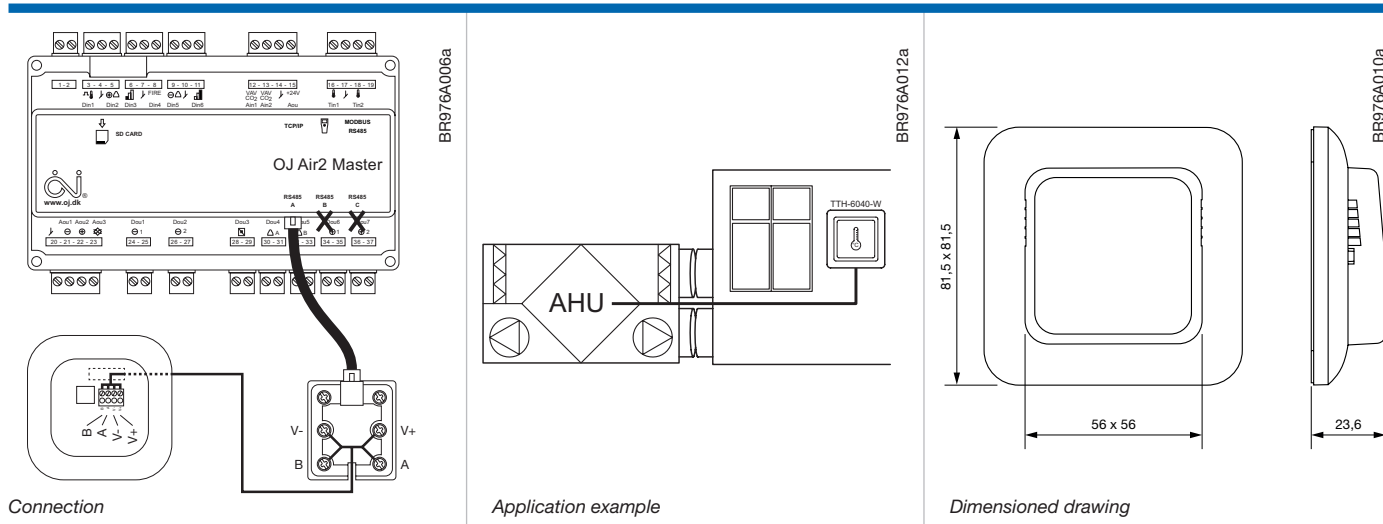
Plug & Play with OJ Air2 and OJ GreenZone™
The TTH-6040-W is fully integrated into the system's software, and the room temperature transmitter is detected fully automatically when it is correctly connected. The solution is "Plug & Play" with no complicated settings. It has never been easier to offer a room temperature sensor as an option.

I/O saving
The TTH-6040-W is connected with a Modbus connection. This saves an analogue temperature input and perhaps even an entire extension module in the associated control system.

OJ air2 COMPATIBLE

Connection

Application example

Dimensioned drawing

Simple installation

The TTH-6040-W is connected to the OJ-Air2Master/OJ GreenZone™ with QuickPlug™ Modbus, eliminating time-consuming installation faults and troubleshooting. The Modbus communications are set up at the factory and ready for immediate use.

Scope of delivery

The TTH-6040-W is delivered in a cardboard box containing:
- 1 x room temperature transmitter
- 1 x terminal box with RJ12 connectors
- 1 x QuickPlug™ cable, 3 m
- 2 x screws
- 1 x self-adhesive pad

INSTALLATION

Installation of the transmitter

The TTH-6040-W 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 4-wire cable is connected in screw terminals and must max. be 1.5 mm². There can be up to 30 m between the transmitter and the terminal box without special requirements being posed of the cable.
The terminal box is connected with the QuickPlug™ cable to the OJ-Air2Master RS485 port A or to an OJ Zone Module on the port Modbus sensor.

PRODUCT PROGRAMME

TYPE	PRODUCT
TTH-6040-W	Room temperature transmitter
OJ-Air2Master	AHU controller
OJ-ZoneModule-MP	OJ GreenZone™ Module MP bus
OJ-ZoneModule-M	OJ GreenZone™ Module Modbus
OJ-ZoneModule-A	OJ GreenZone™ Module Analogue

TECHNICAL DATA

Supply voltage	24 V DC ±15% via QuickPlug™
Power consumption	< 0.24 W
Electrical connection	max. 1.5 mm², screw terminals
QuickPlug™ Modbus	1 x RJ12 (6P6C) in terminal box
Address selector	16 positions
Temperature accuracy	+/- 0.5 K @ 25°C
Amb. operating temperature	-10/+40°C
Dimensions	86 x 86 x 25 mm, transmitter 58 x 52 x 21 mm, terminal box
Enclosure	IP20
Weight	60 g

CE marking

The TTH-6040-W complies with the requirements in the following directives:
EMC Directive
EN 61000-6-2
EN-61000-6-3