

thermokon®

HOME OF SENSOR TECHNOLOGY



JOY

FANCOIL CONTROLLER / ROOM CONTROLLER





» Multi-function with appealing design

JOY – ROOM CONTROLLER

Appealing design, touch sensitive operation, BUS communication options or standalone to adapt to all building infrastructures: JOY provides efficient and comfortable climate control in room applications.

The visual aspect equals a slimline housing, scratch-proof glass touch interface, exclusive stainless steel power button, large and clear backlit display.

The different models provide flexible building infrastructures meeting customer's requirements and integration into the existing BMS.

Human interaction and integration into the BMS, the JOY is easy to configure and control making it a JOYful experience for users as well as integrators to work with.

TECHNICAL HIGHLIGHTS

- » Elegant slimline design, premium component materials and a large LCD
- » Flexibility and options available with different models
- » Types with EasySens® (EnOcean) available
- » Change-Over applications via external temperature sensor or relay input
- » Demand-controlled operation using individual user profiles
- » Integration into BMS (BACnet | EnOcean | Modbus)
- » **NEW:** Available with integrated humidity sensor

FLEXIBLE AND 24/7 DEMAND-CONTROLLED

Three time period programs – four timeslots: By offering demand-controlled individual user profiles, the JOY easily adapts to personal preferences for the room conditions.

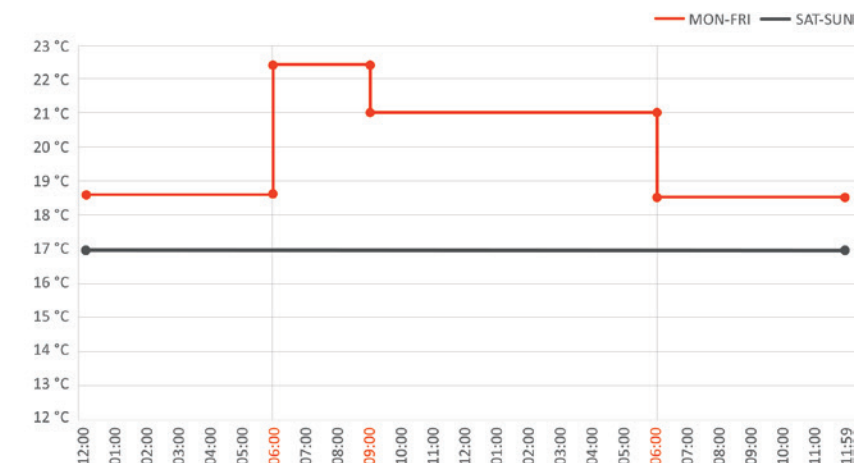
Example of individual user profiles:

06:00 AM: JOY heats up till set point is reached

09:00 AM: Heating power is lowered

18:00 PM: Predefined lowering temperature is kept constant

During weekends, the room temperature is kept at a constant low temperature to save energy when not required or unoccupied.





JOY FANCOIL / JOY SR FANCOIL
 EC 3AO, EC 3AO Modbus, EC 3AO BACnet

BUS interface
 EnOcean-Radio*

3x 0..10 V output for:
 EC fan
 Valves for heating/cooling
 6-Way-Valve

JOY HC / JOY SR HC
 3AO, 3AO Modbus, 3AO BACnet

BUS interface
 EnOcean-Radio*

3x 0..10 V output for:
 Valves for heating/cooling
 6-Way-Valve



ONE PRODUCT – 5 OPTIONS

JOY FANCOIL / JOY SR FANCOIL
 5DO, 5DO Modbus, 5DO BACnet

BUS interface
 EnOcean-Radio*

5x contact NO for:
 Fan stages
 Valves for heating/cooling

JOY FANCOIL / JOY SR FANCOIL
 EC AO2DO, EC AO2DO Modbus, EC AO2DO BACnet

BUS interface
 EnOcean-Radio*

2x contact NO for:
 Valves for heating/cooling

1x 0..10 V output for:
 EC fan

JOY HC / JOY SR HC
 AO2DO, AO2DO Modbus, AO2DO BACnet

BUS interface
 EnOcean-Radio*


2x contact NO:
 Valves for heating/cooling

1x 0..10 V output for:
 6-Way-Valve

* available for types with RS485 Modbus interface

» Available types / function overview
 JOY SR Fancoil – JOY SR HC – JOY Fancoil – JOY HC



Type	GENERAL					INPUTS	OUTPUTS				
	Buttons temperature	Buttons fan control	EasySens® 	Configuration via	Power supply		Universal (configurable)	3x relay (fan)	2x relay (heating/cooling)	1x 0..10 V (EC fan)	1x 0..10 V (6-way valve)
JOY Fancoil 5DO	■	■		SD Card	230 V	3x	■	■			
JOY Fancoil 5DO RS485 Modbus / BACnet	■	■		SD Card, BUS	230 V	2x	■	■			
JOY SR Fancoil 5DO RS485 Modbus	■	■	■	SD Card, BUS	230 V	2x	■	■			
JOY Fancoil EC A02DO	■	■		SD Card	230 V	3x		■	■		
JOY Fancoil EC A02DO RS485 Modbus / BACnet	■	■		SD Card, BUS	230 V	2x		■	■		
JOY SR Fancoil EC A02DO RS485 Modbus	■	■	■	SD Card, BUS	230 V	2x		■	■		
JOY HC A02DO	■			SD Card	230 V	3x		■		■	
JOY HC A02DO RS485 Modbus / BACnet	■			SD Card, BUS	230 V	2x		■		■	
JOY SR HC A02DO RS485 Modbus	■		■	SD Card, BUS	230 V	2x		■		■	
JOY Fancoil EC 3AO	■	■		SD Card	24 V	3x			■	■*	■
JOY Fancoil EC 3AO RS485 Modbus / BACnet	■	■		SD Card, BUS	24 V	2x			■	■*	■
JOY SR Fancoil EC 3AO RS485 Modbus	■	■	■	SD Card, BUS	24 V	2x			■	■*	■
JOY HC 3AO	■			SD Card	24 V	3x				■	■
JOY HC 3AO RS485 Modbus / BACnet	■			SD Card, BUS	24 V	2x				■	■
JOY SR HC 3AO RS485 Modbus	■		■	SD Card, BUS	24 V	2x				■	■



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