

# thermokon®

HOME OF SENSOR TECHNOLOGY



# JOY

FANCOIL CONTROLLER / ROOM CONTROLLER





» Multi-function with appealing design

## JOY – THERMOSTAT/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
- » Integrated ECO function for an increased energy-efficiency

## 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.

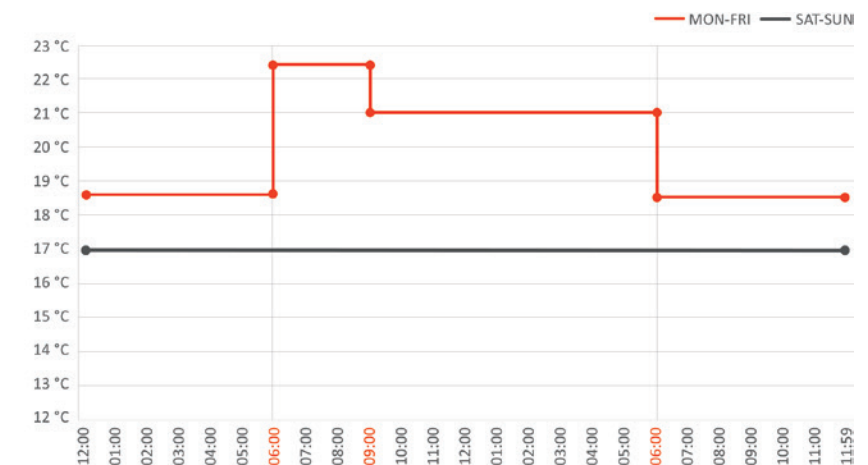
Example of individual user profiles:

**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

**Type: JOY FANCOIL EC 3AO**  
3x 0..10 V output  
(for control of an EC fan or 6 way valve  
and for heating/cooling)

**Type: JOY FANCOIL /  
JOY SR FANCOIL EC 3AO RS485 MODBUS**  
RS485 Modbus interface,  
3x 0..10 V output  
(for control of an EC fan or 6 way valve  
and for heating/cooling)

### JOY HC / JOY SR HC 3AO, 3AO MODBUS

**Type: JOY HC 3AO**  
3x 0..10 V output  
(for control of an EC fan and heating/cooling)

**Type: JOY HC / JOY SR HC 3AO RS485 MODBUS**  
RS485 Modbus interface,  
3x 0..10 V output (for control of an EC fan and  
heating/cooling)



## ONE PRODUCT – 5 OPTIONS

### JOY FANCOIL 5DO, 5DO MODBUS

**Type: JOY FANCOIL 5DO**  
5x normally open contact  
(for heating/cooling and 3x fan stages)  
3x input (2x universal, 1x change-over 230 V)

**Type: JOY FANCOIL 5DO RS485 MODBUS**  
RS485 Modbus interface,  
5x normally open contact  
(for heating/cooling and 3x fan stages),  
2x input (1x universal, 1x change-over 230 V)

### JOY FANCOIL EC AO2DO, EC AO2DO MODBUS

**Type: JOY FANCOIL EC AO2DO**  
2x normally open contact (for heating/cooling),  
1x 0..10 V output (for control of an EC fan)  
3x input (2x universal, 1x change-over 230 V)

**Type: JOY FANCOIL EC AO2DO RS485 MODBUS**  
RS485 Modbus interface,  
2x normally open contact (for heating/cooling),  
1x 0..10 V output (for control of an EC fan)  
2x input (1x universal, 1x change-over 230 V)

### JOY HC / JOY SR HC AO2DO, AO2DO MODBUS

**Type: JOY HC AO2DO**  
2x normally open contact (for heating/cooling),  
1x 0..10 V output (for 6 way valves)

**Type: JOY HC / JOY SR HC AO2DO RS485 MODBUS**  
RS485 Modbus interface,  
2x normally open contact (for heating/cooling),  
1x 0..10 V output (for 6 way valves)

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



Type	GENERAL						INPUTS	OUTPUTS				
	Buttons temperature	Buttons temperature	RS485 Modbus	EasySens®	Configuration via	Power supply		Universal (configurable)	3x digital (fan)	2x digital (heating/cooling)	1x analogue (EC fan)	1x analogue (6-way valve)
Joy Fancoil 5DO	■	■			SD Card	230 V	3x	■	■			
Joy Fancoil 5DO RS485 Modbus	■	■	■		SD Card, BUS	230 V	2x	■	■			
Joy Fancoil EC AO2DO	■	■			SD Card	230 V	3x		■	■		
Joy Fancoil EC AO2DO RS485 Modbus	■	■	■		SD Card, BUS	230 V	2x		■	■		
Joy HC AO2DO	■				SD Card	230 V	3x		■		■	
Joy HC AO2DO RS485 Modbus	■		■		SD Card, BUS	230 V	2x		■		■	
Joy SR HC AO2DO RS485 Modbus	■		■	■	SD Card, BUS	230 V	2x		■		■	
Joy Fancoil EC 3AO	■	■			SD Card	24 V	3x			■	■*	■
Joy Fancoil EC 3AO RS485 Modbus	■	■	■		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	■		■		SD Card, BUS	24 V	2x				■	■
Joy SR HC 3AO RS485 Modbus	■		■	■	SD Card, BUS	24 V	2x				■	■

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