

thermokon®

HOME OF SENSOR TECHNOLOGY



JOY

FANCOIL CONTROLLER / ROOM CONTROLLER



THE EFFECTIVE SENSOR MANUFACTURER FROM GERMANY





» 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 large LCD screen
- » 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

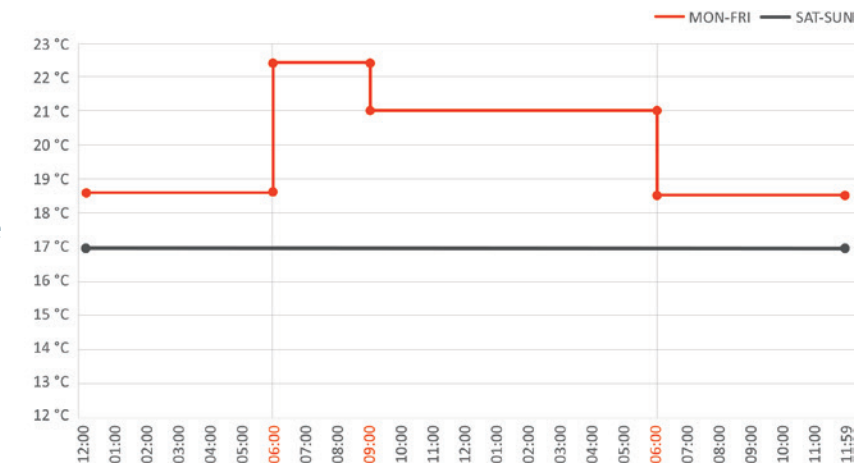
Example of individual user profiles:

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

09:00 Uhr: heating power is lowered

18:00 Uhr: 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 fan control	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				■	■

* Instead of 2x analogue (heating/cooling)

CONTACT

Thermokon Sensortechnik GmbH

Platanenweg 1 | 35756 Mittenaar | Germany
Phone: +49 2778 6960-0 | Fax: +49 2778 6960-400
email@thermokon.de | www.thermokon.de



AUSTRIA

Thermokon Components GmbH

Heid-Werkstraße 4 | 2000 Stockerau
Phone: +43 2266 67485 | Fax: +43 2266 67485-34
info@thermokon.at | www.thermokon.at

CHINA

Thermokon Automation Equipment Co. Ltd.

479 Chun Dong Road | Xin Zhuang Industry Park,
Building C-1, 2/Floor | 201108 Shanghai
Phone: +86 21 5176 0211 | Fax: +86 21 5176 0213
info@thermokon.asia | www.thermokon.asia

FINLAND

Thermokon Sensor Technology Finland OY

Edelfeltinkatu | 48200 Kotka
Phone: +358 40 5525 442
info@thermokon.fi | www.thermokon.fi

HONG KONG

Thermokon Sensor Technology Ltd.

Flat 6, 21/F, Lucida Industrial Building
43, Wang Lung Street | Tsuen Wan | Hong Kong
Phone: +852 3628 3760 | Fax: +852 3628 3762
info@thermokon.asia | www.thermokon.asia

NETHERLANDS

Thermokon Sensor Technology Nederland B.V.

Rozenstraat 11 | 6361 HS Nuth
Phone: +3165 05 50 61 99
email@thermokon.nl | www.thermokon.nl

SWEDEN

Thermokon-Danelko Elektronik AB

Metallgatan 1b | 26272 Ängelholm
Phone: +46 4 314484 54 | Fax: +46 4 3114 19 0
info@thermokon.se | www.thermokon.se

SWITZERLAND

Thermokon Sensortechnik Schweiz AG

Zürichstraße 46 | 8303 Bassersdorf
Phone: +41 447 5250-00 | Fax: +41 447 5250-01
email@thermokon.ch | www.thermokon.ch