

# 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 | KNX | 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.

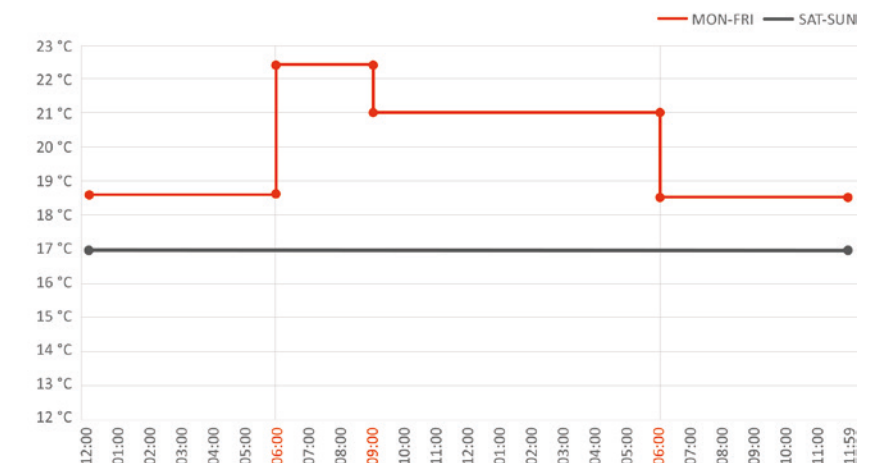
Example of individual user profiles:

**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

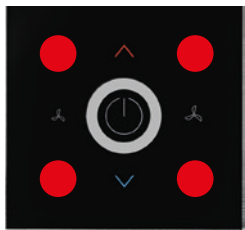
\* available for types with RS485 Modbus interface



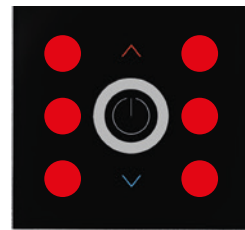
## JOY CUSTOM – FUNCTIONAL INDIVIDUALISM

With the **JOY Custom\*** you will get an individual room controller, that is optimally adapted to your requirements and desires. In addition to the classic functionality for controlling the setpoint temperature and adjusting fan speeds, our customized variants have four (JOY Fancoil) or six (JOY HC) additional, freely configurable buttons.

Possible areas of application for the additional buttons would be e.g. switching lighting or controlling blinds or shades – the choice is yours! Graphical and customizable icons for the respective buttons as well as the possibility of having your own logo lasered into the real glass surface make the JOY Custom a unique user experience.



JOY Fancoil Custom with four customizable touch buttons



JOY HC Custom with six customizable touch buttons



JOY Fancoil Custom




JOY HC Custom

\* Minimum order quantity 100 pieces

» 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				■	■



HOME OF SENSOR TECHNOLOGY

## 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 Elektronik Components GmbH**

Ausstellungsstraße 6 | 2020 Hollabrunn  
Phone: +43 2952 50407-0  
info@thermokon.at | www.thermokon.at

### FINLAND

#### **Thermokon Sensor Technology Finland OY**

Edelfeltinkatu | 48200 Kotka  
Phone: +358 45 230 7141  
info@thermokon.fi | www.thermokon.fi

### FRANCE

#### **Thermokon Sensor Technology France S.A.S.**

38 Rue des Mathurins | 75008 Paris  
Phone: +33 6 40 16 62 25  
contact@thermokon.fr | www.thermokon.fr

### ITALY

#### **Thermokon Sensor Technology S.r.l.**

Via Giuseppe Mazzini 7 | 20030 Senago (MI)  
Phone: +39 347 9679018 | Fax: +49 2778 6960-400  
contatti@thermokon.de | www.thermokon.com

### 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

### NETHERLANDS

#### **Thermokon Sensor Technology Nederland B.V.**

Rozenstraat 11 | 6361 HS Nuth  
Phone: +31 65 05 5 61 99  
email@thermokon.nl | www.thermokon.nl

### SPAIN

#### **Thermokon Sensor Technology Ibérica S.L.U.**

Agustín de Foxá, 4 – Edificio Aqua | 28036 Madrid  
Phone: +34 621 006 027  
info@thermokon.es | www.thermokon.es

### SWEDEN

#### **Thermokon-Danelko Elektronik AB**

Girovägen 13 | 17562 Järfälla  
Phone: +46 10 212 10 30  
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

### 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