Wireless room humidity and temperature radio sensors with solar cell

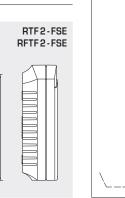


RTF 2-FSE

The room temperature sensors KYMASGARD® RIF2-F5E or RFIF2-F5E are datteryless
and maintenance-free radio transmitters. Energy generation is effected by conversion of indoor
room light into electric energy by means of a solar generator. These sensors are used to detect
the room temperature or room humidity and to transmit the measurands via radio frequency to
radio actuators and radio signal receivers / gateways. If ambient light conditions are insufficient
for energy generation, they also can be operated on a lithium battery. To do so, insert the
lithium cell into the battery holder provided.
The device IDs are marked on a label in the device.



Deration: Energy generation by solar cell, batteryless, maintenance-free (optionally battery-operated) Radio technology: EnOcean protocol, modulation ASK, 868 MHz, transmission power max. 10 mW, telegram type 4BS Channels: 1 temperature, 1 humidity Radio transmitter module: EnOcean Dolphin Measuring range, temperature: Deviation, temperature: Deviation, temperature: typically ± 0.2 K at +25 °C Measuring range, humidity: Deviation humidity: typically ± 3 % RH (30 80 %) at +20 °C Measurand acquisition: adjustable, every 1s / 10 s / 100 s Transmission interval: adjustable, typically every 100 seconds, or at any measuring value change, status telegram approximately every 16 minutes Range of coverage: indoors typically 30 - 100 m, outdoors up to 300 m Housing: plastic, material ABS, colour pure white (similar to RAL 9010) Dimensions: 98 x 106 x 32 mm (Frija 2) Mounting: wall mounting or on in-wall flush box Ø 55 mm, base with 4-hole for mounting on vertically or horizontally installed in-wall flush boxes Ambient temperature: -5+55 °C Storage temperature: -25+60 °C Humidity: 090 % RH, non-precipitating air Protection class: Ill (according to EN 60 730) Protection type: IP 30 (according to EN 60 529) Standards: CE conformity according to EMC directive 2014/30/EU and according to R&TTE directive 2014/53/EU	TECHNICAL DATA	
transmission power max. 10 mW, telegram type 4BS Channels: 1 temperature, 1 humidity Radio transmitter module: EnOcean Dolphin Measuring range, temperature: 0+40 °C Deviation, temperature: typically ± 0.2 K at +25 °C Measuring range, humidity: 0100 % RH Deviation humidity: typically ± 3 % RH (30 80 %) at +20 °C Measurand acquisition: adjustable, every 1s / 10 s / 100 s Transmission interval: adjustable, typically every 100 seconds, or at any measuring value change, status telegram approximately every 16 minutes Range of coverage: indoors typically 30 - 100 m, outdoors up to 300 m Housing: plastic, material ABS, colour pure white (similar to RAL 9010) Dimensions: 98 x 106 x 32 mm (Frija 2) Mounting: wall mounting or on in-wall flush box Ø 55 mm, base with 4-hole for mounting on vertically or horizontally installed in-wall flush boxes Ambient temperature: -5+55 °C Storage temperature: -25+60 °C Humidity: 090 % RH, non-precipitating air Protection class: III (according to EN 60 529) Standards: CE conformity according to EMC directive 2014/30/EU	Operation:	
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Measuring range, humidity:		0+40 °C
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Transmission interval: adjustable, typically every 100 seconds, or at any measuring value change, status telegram approximately every 16 minutes Range of coverage: indoors typically 30 - 100 m, outdoors up to 300 m Housing: plastic, material ABS, colour pure white (similar to RAL 9010) Dimensions: 98 x 106 x 32 mm (Frija 2) Mounting: wall mounting or on in-wall flush box Ø 55 mm, base with 4-hole for mounting on vertically or horizontally installed in-wall flush boxes Ambient temperature: -5+55 °C Storage temperature: -25+60 °C Humidity: 090 % RH, non-precipitating air Protection class: Ill (according to EN 60 730) Protection type: IP 30 (according to EM 60 529) Standards: CE conformity according to EMC directive 2014/30/EU	Deviation humidity:	typically ± 3 % RH (30 80 %) at +20 °C
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Storage temperature: -25+60 °C Humidity: 090 % RH, non-precipitating air Protection class: III (according to EN 60 730) Protection type: IP 30 (according to EN 60 529) Standards: CE conformity according to EMC directive 2014/30/EU	Mounting:	base with 4-hole for mounting on vertically
Humidity: 090 % RH, non-precipitating air Protection class: III (according to EN 60 730) Protection type: IP 30 (according to EN 60 529) Standards: CE conformity according to EMC directive 2014/30/EU	Ambient temperature:	−5+55 °C
Protection class: III (according to EN 60 730) Protection type: IP 30 (according to EN 60 529) Standards: CE conformity according to EMC directive 2014/30/EU	Storage temperature:	−25+60°C
Protection type: IP 30 (according to EN 60 529) Standards: CE conformity according to EMC directive 2014/30/EU	Humidity:	090% RH, non-precipitating air
Standards: CE conformity according to EMC directive 2014/30/EU	Protection class:	III (according to EN 60 730)
	Protection type:	IP 30 (according to EN 60 529)
	Standards:	



Dimensional drawing			RTF2-FSE RFTF2-FSE
	32	106	

Schematic diagram	RTF2-FSE RFTF2-FSE
Solar plug Mode Teach-In O 1 2 3 4 Teach-In	
Sensor	Þ

KYMASGARD® KYMASGARD®			mperature radio room humidity	o sensors and temperature radio se	nsors	
Type/WG02	Channels	Measuring Ra Temperature	•	Energy Generation	Item No.	Price
RTF2-FSE	1	0+40°C	_	Solar cell, battery	1801-4451-0040-040	137,50 €
RFTF2-FSE	2	0+40°C	0100 % RH	Solar cell, battery	1801-4452-3040-040	318,26 €
ACCESSORIES						
ET BATTERIE	Lithium battery LS 14250 7000-4000-5000-000 19,74 s			19,74 €		
Compatibility	omnatibility For an overview see the start of the chanter					

RTF2-FSE-P

RFTF 2-FSE-P



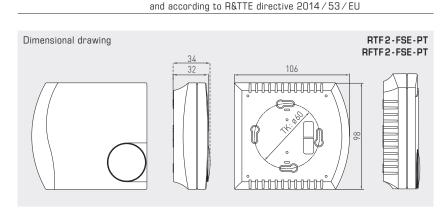
Wireless room humidity and temperature radio sensors with solar cell and setpoint setter

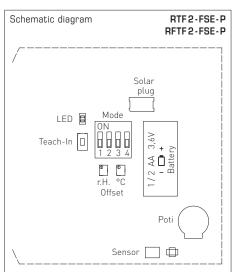
The room temperature sensor KYMASGARD® RTF2-FSE-P or RFTF2-FSE-P is a batteryless and maintenance-free radio transmitter. Energy generation is effected by conversion of indoor room light into electric energy by means of a solar generator. These sensors are used to detect the room temperature or room humidity as well as for setpoint setting and to transmit the measurands via radio frequency to radio actuators and radio signal receivers / gateways. If ambient light conditions are insufficient for energy generation, they also can be operated on a lithium battery. To do so, insert the lithium cell into the battery holder provided. The device IDs are marked on a label in the device.

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TECHNICAL DATA	
Operation:	Energy generation by solar cell, batteryless, maintenance-free (optionally battery-operated)
Radio technology:	EnOcean protocol, modulation ASK, 868 MHz, transmission power max. 10 mW, telegram type 4BS
Channels:	1 temperature, 1 humidity, 1 setpoint
Radio transmitter module:	EnOcean Dolphin
Measuring range, temperature:	0+40 °C
Deviation, temperature:	typically $\pm 0.2 \text{K}$ at $+25 ^{\circ}\text{C}$
Measuring range, humidity:	0100 % RH
Deviation humidity:	typically $\pm 3\%$ RH (30 80%) at ± 20 °C
Setpoint capture:	turning angle left $0^\circ = 0$ bits turning angle right $220^\circ = 255$ bits
Measurand acquisition:	adjustable, every 1s/10s/100s
Transmission interval:	adjustable, typically every 100 seconds, or at any measuring value change, or change of turning angle status telegram approximately every 16 minutes
Range of coverage:	indoors typically 30 - 100 m, outdoors up to 300 m
Housing:	plastic, material ABS, colour pure white (similar to RAL 9010)
Dimensions:	98 x 106 x 34 mm (Frija 2)
Mounting:	wall mounting or on in-wall flush box Ø 55 mm, base with 4-hole for mounting on vertically or horizontally installed in-wall flush boxes
Ambient temperature:	−5+55 °C
Storage temperature:	−25+60 °C
Humidity:	090% RH, non-precipitating air
Protection class:	III (according to EN 60730)
Protection type:	IP 30 (according to EN 60 529)
Standards:	CE conformity according to EMC directive 2014 / 30 / EU





KYMASGARD®	KYMASGARD® RFTF 2-FSE-P Wireless room humidity and temperature radio sensors					
Type/WG02	Channels	Measuring Ra Temperature	n ge Humidity	Energy Generation	Item No.	Price
RTF2-FSE-P	2	0+40°C	-	Solar cell, battery	1801-4451-0140-040	161,69 €
RFTF2-FSE-P	3	0+40°C	0100 % RH	Solar cell, battery	1801-4452-0140-040	337,33 €
ACCESSORIES						
ET BATTERIE	Lithium battery LS 14250 7000-4000-5000-000 19,74 €					
BG KNOPF	F Control knob (4°C34°C) for combination with TA2-FEM 7000-4030-0008-058 5,99 €				5,99 €	
Compatibility	Compatibility For an overview, see the start of the chapter					

KYMASGARD® RTF 2 - FSE - P

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Wireless room humidity and temperature radio sensors with solar cell, setpoint setter, and push-button

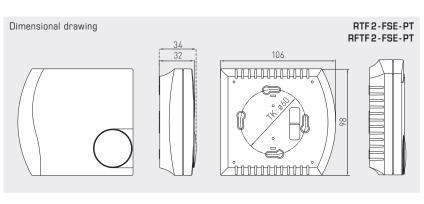


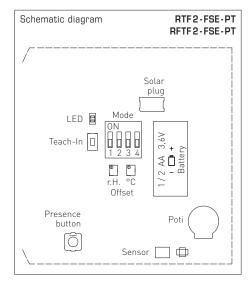
The room temperature sensor $KYMASGARD^{\otimes}$ RTF2-FSE-PT or RFTF2-FSE-PT is a batteryless and maintenance-free radio transmitter. Energy generation is effected by conversion of indoor room light into electric energy by means of a solar generator. These sensors are used to detect the room temperature or room humidity as well as for setpoint setting and to transmit the measurands via radio frequency to radio actuators and radio ${\sf res}$ $signal\ \bar{r}eceivers/gateways.\ If\ ambient\ light\ conditions\ are\ \bar{i}nsufficient\ for\ energy\ generation,$ they also can be operated on a lithium battery. To do so, insert the lithium cell into the battery holder provided. The device IDs are marked on a label in the device.

RTF2-FSE-PT
RFTF2-FSE-PT



TECHNICAL DATA			
Operation:	Energy generation by solar cell, batteryless, maintenance-free (optionally battery-operated)		
Radio technology:	EnOcean protocol, modulation ASK, 868 MHz, transmission power max. 10 mW, telegram type 4BS		
Channels:	1 temperature, 1 humidity, 1 setpoint, 1 presence pushbutton		
Radio transmitter module:	EnOcean Dolphin		
Measuring range, temperature:	0+40 °C		
Deviation, temperature:	typically $\pm 0.2 \text{K}$ at $+25 ^{\circ}\text{C}$		
Measuring range, humidity:	0100 % RH		
Deviation humidity:	typically ± 3 % RH (3080 %) at +20 °C		
Setpoint capture:	turning angle left $0^\circ=0$ bits turning angle right $220^\circ=255$ bits		
Measurand acquisition:	adjustable, every 1s/10s/100s		
Transmission interval:	adjustable, typically every 100 seconds, or at any measuring value change, or change of turning angle status telegram approximately every 16 minutes		
Range of coverage:	indoors typically 30 - 100 m, outdoors up to 300 m		
Housing:	plastic, material ABS, colour pure white (similar to RAL 9010)		
Dimensions:	98 x 106 x 34 mm (Frija 2)		
Mounting:	wall mounting or on in-wall flush box Ø 55 mm, base with 4-hole for mounting on vertically or horizontally installed in-wall flush boxes		
Ambient temperature:	−5+55 °C		
Storage temperature:	−25+60 °C		
Humidity:	090% RH, non-precipitating air		
Protection class:	III (according to EN 60 730)		
Protection type:	IP 30 (according to EN 60 529)		
Standards:	CE conformity according to EMC directive 2014/30/EU and according to R&TTE directive 2014/53/EU		





KYMASGARD® RTF2-FSE-PT	Room temperature radio sensors
KYMASGARD® RFTF2-FSE-PT	Wireless room humidity and temperature radio sensors

Type/WG02	Channels	Measuring Ra Temperature	nge Humidity	Energy Generation	Item No.	Price
RTF2-FSE-PT	3	0+40°C	_	Solar cell, battery	1801-4451-0440-040	171,85 €
RFTF2-FSE-PT	4	0+40°C	0100% RH	Solar cell, battery	1801-4452-0440-040	347,54 €
ACCESSORIES						
ET BATTERIE	Lithium battery LS 14250 7000-4000-5000-000			19,74 €		
Compatibility	For an overview, see the start of the chapter					



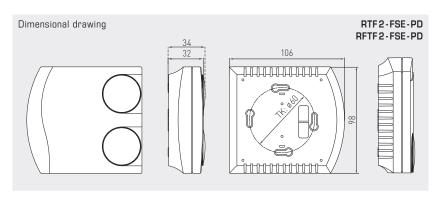
Wireless room humidity and temperature radio sensors with solar cell, setpoint setter, and step selection

The room temperature sensor KYMASGARD® RTF2-FSE-PD or RFTF2-FSE-PD is a batteryless and maintenance-free radio transmitter. Energy generation is effected by conversion of indoor room light into electric energy by means of a solar generator. These sensors are used to detect the room temperature or room humidity as well as for setpoint setting and to transmit the measurands via radio frequency to radio actuators and radio signal receivers / gateways. If ambient light conditions are insufficient for energy generation, they also can be operated on a lithium battery. To do so, insert the lithium cell into the battery holder provided. The device IDs are marked on a label in the device.

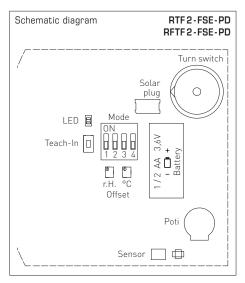
RTF2-FSE-PD
RFTF2-FSE-PD



TECHNICAL DATA			
Operation:	Energy generation by solar cell, batteryless, maintenance-free (optionally battery-operated)		
Radio technology:	EnOcean protocol, modulation ASK, 868 MHz, transmission power max. 10 mW, telegram type 4BS		
Channels:	1 temperature, 1 setpoint, 1 step switch		
Radio transmitter module:	EnOcean Dolphin		
Measuring range, temperature:	0+40 °C		
Deviation, temperature:	typically $\pm 0.2 \text{K}$ at $+25 ^{\circ}\text{C}$		
Measuring range, humidity:	0100 % RH		
Deviation humidity:	typically $\pm 3\%$ RH (30 80%) at ± 20 °C		
Setpoint capture:	turning angle left 0° = 0 bits turning angle right 220° = 255 bits Step selection: 0 to 255 bits in steps		
Measurand acquisition:	adjustable, every 1s/10s/100s		
Transmission interval:	adjustable, typically every 100 seconds, or at any measuring value change, or change of turning angle status telegram approximately every 16 minutes		
Range of coverage:	indoors typically 30 - 100 m, outdoors up to 300 m		
Housing:	plastic, material ABS, colour pure white (similar to RAL 9010)		
Dimensions:	98 x 106 x 34 mm (Frija 2)		
Mounting:	wall mounting or on in-wall flush box Ø 55 mm, base with 4-hole for mounting on vertically or horizontally installed in-wall flush boxes		
Ambient temperature:	−5+55 °C		
Storage temperature:	−25+60 °C		
Humidity:	090% RH, non-precipitating air		
Protection class:	III (according to EN 60730)		
Protection type:	IP 30 (according to EN 60 529)		
Standards:	CE conformity according to EMC directive 2014/30/EU and according to R&TTE directive 2014/53/EU		



KYMASGARD® RTF2-FSE-PD Room temperature radio sensors



KYMASGARD® RFTF2-FSE-PD Wireless room humidity and temperature radio sensors						
Type/WG02	Channels	Measuring Ra Temperature	-	Energy Generation	Item No.	Price
RTF2-FSE-PD2	3	0+40°C	_	Solar cell, battery	1801-4451-0240-040	193,49 €
RTF2-FSE-PD5	3	0+40°C	_	Solar cell, battery	1801-4451-0340-040	193,49 €
RFTF2-FSE-PD2	4	0+40°C	0100 % RH	Solar cell, battery	1801-4452-0240-040	362,82 €
ACCESSORIES						
ET BATTERIE	Lithium ba	Lithium battery LS 14250			7000-4000-5000-000	19,74 €
Compatibility	For an ove	For an overview, see the start of the chapter				

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Wireless room temperature radio sensors with solar cell, setpoint setter, step selection, and push-button

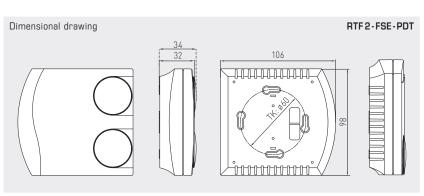


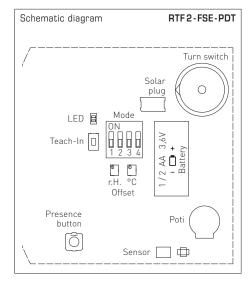
RTF2-FSE-PDT

The room temperature sensor $\mathbf{KYM} \mathsf{ASGARD}^{\texttt{®}} \ \mathbf{RTF2-FSE-PDT}$ is a battery-less and maintenance-free radio transmitter. Energy generation is effected by conversion of indoor ${\tt room\ light\ into\ electric\ energy\ by\ means\ of\ a\ solar\ generator.\ These\ sensors\ are\ used\ to}$ detect the room temperature as well as for setpoint setting and to transmit the measurands via radio frequency to radio actuators and radio signal receivers/gateways. If ambient light conditions are insufficient for energy generation, they also can be operated on a lithium battery. To do so, insert the lithium cell into the battery holder provided. The device IDs are marked on a label in the device.

TECHNICAL DATA			
Operation:	Energy generation by solar cell, batteryless, maintenance-free (optionally battery-operated)		
Radio technology:	EnOcean protocol, modulation ASK, 868 MHz, transmission power max. 10 mW, telegram type 4BS		
Channels:	1 temperature, 1 setpoint, 1 step switch, 1 presence pushbutton		
Radio transmitter module:	EnOcean Dolphin		
Measuring range, temperature:	0+40 °C		
Deviation, temperature:	typically $\pm 0.2 \text{K}$ at $+25 ^{\circ}\text{C}$		
Setpoint capture:	turning angle left 0° = 0 bits turning angle right 220° = 255 bits Step selection: 0 to 255 bits in steps		
Measurand acquisition:	adjustable, every 1s/10s/100s		
Transmission interval:	adjustable, typically every 100 seconds, or at any measuring value change, presence push-button activation, or change of turning angle status telegram approximately every 16 minutes		
Range of coverage:	indoors typically 30 - 100 m, outdoors up to 300 m		
Housing:	plastic, material ABS, colour pure white (similar to RAL 9010)		
Dimensions:	98 x 106 x 34 mm (Frija 2)		
Mounting:	wall mounting or on in-wall flush box Ø 55 mm, base with 4-hole for mounting on vertically or horizontally installed in-wall flush boxes		
Ambient temperature:	−5+55 °C		
Storage temperature:	−25+60°C		
Humidity:	090% RH, non-precipitating air		
Protection class:	III (according to EN 60730)		
Protection type:	IP 30 (according to EN 60 529)		
Standards:	CE conformity according to EMC directive 2014/30/EU and according to R&TTE directive 2014/53/EU		







KYMASGA
Type/WG02
RTF2-FSE-P
ACCESSORI

KYMASGARD® RTF2-FSE-PDT Room temperature radio sensor							
Type/WG02	Channels	Measuring Ran Temperature	•	Energy Generation	Item No.	Price	
RTF2-FSE-PD5T	4	0+40°C	_	Solar cell, battery	1801-4451-0540-040	206,24 €	
ACCESSORIES							
ET BATTERIE	Lithium ba	Lithium battery LS 14250			7000-4000-5000-000	19,74 €	
Compatibility	For an overview, see the start of the chapter						















