thermokon Sensortechnik GmbH

STC-DO Light 230 V

EasySens Receiver 2-channel

Installation and operating instructions

DESCRIPTION

GB

The receiver is part of the Easyclick (EC) system developed by PEHA. The system is based on radio transmitters and receivers which operate at 868.3 MHz frequency, to wirelessly control consumers. Various electric loads such as lamp bulbs, HV halogen lamps and inductive loads can be switched with the output of the receiver

The function of the receiver is adjustable for each radio transmitter. Before use, the radio transmitters must be assigned to the receiver. Every radio transmitter can control an unlimited number of receivers

1 NOTES

- Read the operating instructions carefully before installing the device

- Bidirectional functions (transmit/receive) integrated.
- The operating instructions for the radio transmitters must be observed!

SAFETY

CAUTION! DANGER OF ELECTRICAL SHOCK! The housing contains current-carrying components Contact can lead to personal injury! All work on the mains network and the device may only be performed by an authorised electrician.

- Disconnect power supply from the device.
- Secure the device against being powered on again.
- Check that the device is powered off. Close the housing securely before applying power.

This device is only intended to be used for its stated application. Unauthorised conversions, modifications or changes are not permissible! This device may not be used in conjunction with other devices whose operation could present a hazard to people, animals or property.

The following must be observed:

· Prevailing statutes, standards and regulations. • State-of-the-art technology at the time of installation.

- The device's operating instructions
- Operating instructions can only cite general stipulations. These are to be viewed in the context of a specific system.

TECHNICAL INFORMATION

General Data				
Own consumption	Stand	lby < 0,5W		
Transmit frequency	868,3	8 MHz		
Power supply	100-2	240V~ / 50-60 H	Z	
Fuse protection	MCB	with 16A maxim	num	
Ambient temperature	-20 to	o +40 °C		
Storage temperature	-40 to	o +85°C		
Plug-in terminal	max.	1 x 1,5 mm²		
Test specifications	EN 60	0669-2-1		
Identification	CE ; K	CE ; KEMA/KEUR		
Protection type	IP20	IP20		
Lood Turner		220\/~	110\/~	
	<u>况</u>	2500 W	1250.W	
	Incandescent lamps		1250 W	
HV halogen lamps 🛛 🖽	HV halogen lamps 🛛 🔤 🔫		600 W	
Motor load	(M)	600 VA	300 VA	
Electronic ballast	∕⊗	3 units ⁽¹⁾	3 units ⁽¹⁾	
(1) The quantity depends on the type and manufacturer				

The device's data sheet must be observed!



RF RANGE

Radio signals are electromagnetic waves. The farther away the transmitter is, the weaker is the field strength surrounding the receiver. As such, the range is limited, Different materials or interference sources in the direction of the signals can further reduce the range. The range can be increased by the use of Easyclick Repeaters (radio amplifiers).

	Material	Reducti	ion	
Wood,	plaster, non-coated glass	0 - 109	%	
Maso	nry, wood/plaster walls	5 - 359	%	
R	einforced concrete	10 - 90	1%	
Range	Conditio	ns		
> 30 m	Under good conditions (la hout obstructions).	rge, clear sp	oace wit	
> 20 m	Through up to 5 plaster/dr 2 brick/porous concreter persons in the room): For transmitter and receiv positioning/layout.	Through up to 5 plaster/drywall board walls or 2 brick/porous concrete walls (furniture and persons in the room): For transmitter and receiver with good aerial positioning/layout		
 > 10 m > 10 m Through up to 5 plaster/drywall board walls or 2 brick/porous concrete walls (furniture and persons in the room): For receivers installed in walls or corners of rooms, receivers with internal aerial or narrow corrider. 				
hrough 1	I-2 Depending on ceiling/wall	armouring	and type	
NOCEA Ocean El able com	N EQUIPMENT PROFILES	(EEPs) cation profil	es. Thes	
NOCEA Ocean El able com anufactur e table b mmunica	N EQUIPMENT PROFILES EPs are standardised communic munication between the variou rers. elow is intended for qualified pe- tition profiles for a project with P	(EEPs) cation profil is products ersonnel req PEHA product	es. Thes of variou uiring th cts:	
NOCEA Ocean El able com anufactur e table b mmunica EP	N EQUIPMENT PROFILES EPs are standardised communic munication between the variou rers. elow is intended for qualified pe tion profiles for a project with P Description	(EEPs) cation profil is products ersonnel req PEHA product Function	es. Thes of variou uiring th cts: Mode	
NOCEA Ocean El able com anufactur e table b mmunica EP 6-02-02	N EQUIPMENT PROFILES EPs are standardised communic munication between the variou rers. elow is intended for qualified pe- tion profiles for a project with f Description Light control 2 Rocker	(EEPs) cation profil is products ersonnel req PEHA product Function 01	es. Thes of variou uiring th cts: <u>Mode</u> 01	
NOCEA Ocean El able com anufactur e table b mmunica EP 6-02-02 6-03-02	N EQUIPMENT PROFILES EPs are standardised communic munication between the variou rers. elow is intended for qualified pe- tition profiles for a project with F Description Light control 2 Rocker Light control 4 Rocker	(EEPs) cation profil is products ersonnel req PEHA product Function 01 01	es. Thes of variou uiring th cts: Mode 01 01	
NOCEA Ocean El able com anufactur e table b mmunica EP 6-02-02 6-03-02 6-04-01	N EQUIPMENT PROFILES EPs are standardised communic munication between the variou rers. elow is intended for qualified pe- tition profiles for a project with P Description Light control 2 Rocker Light control 4 Rocker Key Card Activated Switch	(EEPs) cation profil is products ersonnel req PEHA product Function 01 01 01	es. Thes of variou uiring th cts: <u>Mode</u> 01 01	
NOCEA Ocean El able com anufactur e table b mmunica EP 6-02-02 6-03-02 6-04-01 6-10-00	N EQUIPMENT PROFILES EPs are standardised communic munication between the variou rers. elow is intended for qualified pe- tition profiles for a project with P Description Light control 2 Rocker Light control 4 Rocker Key Card Activated Switch Mechanical Handle	(EEPs) cation profil is products ersonnel req PEHA product Function 01 01 01 01 01	es. Thes of variou uiring th cts: Mode 01 01 01	
NOCEA Ocean El able com anufactur e table b mmunica EP 6-02-02 6-03-02 6-03-02 6-04-01 6-10-00 5-00-01	N EQUIPMENT PROFILES EPs are standardised communic munication between the variou rers. elow is intended for qualified pe- tition profiles for a project with P Description Light control 2 Rocker Light control 4 Rocker Key Card Activated Switch Mechanical Handle Single input/window contacts	(EEPs) cation profil is products ersonnel req PEHA product Function 01 01 01 01 01 01 07 07	les. Thes of variou uiring th cts: Mode 01 01 01 01	
NOCEA Ocean El able com anufactur e table b mmunica EP 6-02-02 6-03-02 6-04-01 6-10-00 5-00-01 5-06-02	N EQUIPMENT PROFILES EPs are standardised communit munication between the variou- rers. elow is intended for qualified pe- tion profiles for a project with F Description Light control 2 Rocker Light control 4 Rocker Key Card Activated Switch Mechanical Handle Single input/window contacts Light sensor 0lx to 1.020lx	(EEPs) cation profil is products ersonnel req PEHA product Function 01 01 01 01 01 07 07 07 09	es. Thes of variou uiring th cts: Mode 01 01 01 01 01 01	
NOCEA Ocean El able com anufactur e table b mmunica EP 6-02-02 6-03-02 6-03-02 6-04-01 6-10-00 5-00-01 5-06-02 5-07-01	N EQUIPMENT PROFILES EPs are standardised communit munication between the variou- rers. elow is intended for qualified pe- tition profiles for a project with F Description Light control 2 Rocker Light control 4 Rocker Key Card Activated Switch Mechanical Handle Single input/window contacts Light sensor 0lx to 1.020lx Occupancy	(EEPs) cation profil as products of ersonnel req PEHA product Function 01 01 01 01 01 07 07 07 09 08	es. Thes of variou uiring th cts: Mode 01 01 01 01 01 01 01 01	
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NOCEA Ocean El able com anufactur e table b mmunica EP 6-02-02 6-03-02 6-03-02 6-04-01 5-00-01 5-06-02 5-07-01 5-08-01 5-08-02 5-08-03 5-08-03 5-38-08	N EQUIPMENT PROFILES EPs are standardised communic munication between the variou- rers. elow is intended for qualified pe- tition profiles for a project with P Description Light control 2 Rocker Light control 4 Rocker Key Card Activated Switch Mechanical Handle Single input/window contacts Light sensor 0lx to 1.020lx Occupancy Light (0lx to 510 lx), Occupancy and PIR Light (0lx to 1530 lx), Occupancy and PIR Light (0lx to 1530 lx), Occupancy and PIR	(EEPs) cation profil is products resonnel req PEHA product Function 01 01 01 01 07 07 09 08 08 08 08	les. Thes of variou uiring th cts: Mode 01 01 01 01 01 01 01 01 01 01 01 04 04 04 04	
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NOTE: When a new radio transmitter has been assigned to the receiver in learn mode, the transmitter's function and mode have been set to the standard values (see PROGRAMMING).

CLEAR FUNCTION: When a new radio transmitter is assigned to the receiver in learn Deleting all transmitters **1** NOTES ON PROGRAMMING mode, the receiver sends a status acknowledge directly to the radio transmitter. The operator can therefore use the bidirectional Long press (3s) MODE and LRN but For programming, the receiver must be connected to the functions of radio transmitters (e.g. handheld transmitters 450 mains power supply. The programming is retained even in a Deleting all radio tran FU-HS 128), visualisations and receivers power failure LED LRN and MODE ON The EC receiver 451 FU-EBIM with energy measurement function - The operating instructions for the transmitters must be allows to read out and view the measured energy consumption observed! values via the corresponding EnOcean EPs (see below). Idle state (LEDs off) - No transmitter is assigned to the receiver in its delivered state. Status Acknowledges - Up to 32 transmitters should be assigned in learn mode to the radio receiver prior to use. Extended lighting status: - Several transmitters can be assigned or deleted in learn mode. status of the output (channel) A5-11-04 - In learn mode, activating several times over alternately - energy consumption (optional) PROGRAMMING EXAMPLE assigns and deletes the transmitters - error messages (optional) Learn mode ends after 30 s when no button is pressed. Window visualisation: - Programming ends automatically after 30 s when no button A5-30-02 Assigning or Deleting transmitters - status message: Window closed/open is pressed VLD bidirectional: Short press (1s) button LRN: 0 - status of the output (channel) LED LRN is flashing red (Learn Mode) MODE energy consumption (451 FU-EBIM) D2-01-08 MODE button with LED - error messages (optional) Press button O or I of the transmitter - additional functions (optional) CLEAR Function IRN button with IFD LED LRN ON: Radio transmitter assigned LED LRN OFF: Radio transmitter deleted INSTALLATION Short press (1s) button LRN: LEDs off (Learn Mode completed) LEARN MODE: Assigning or Deleting transmitters **1** IMPORTANT INSTALLATION INFORMATION ! Set function 3 and mode 2 Installation and commissioning may only be performed by an Short press (1s) LRN button authorised electrician. Mains power to electrical equipment \bigcap Long press (3s) button LRN LEARN MODE (LED LRN is flashing red) must be switched off during installation. Applicable laws and standards of the country in which the device is operated must be observed! \bigcirc LED LRN and MODE are flashing green Activate radio transmitter once This device is intended for installation in a 60 mm wall box. They are to be equipped with the 1-5 multipurpose frame from Press button or learn button Press button O or I of the transmitter of the transmitter once the switch range. NEVER install Easyclick receivers in a metal enclosure or in the immediate vicinity of large metal objects. LED ON: radio transmitter assigned $\left(\right)$ Installation close to floor level or on the floor is not Press LRN button 3 times = function 3 LED OFF: radio transmitter deleted MODE Short press (1s) button MODE Short press (1s) LRN button Learn Mode completed (LEDs off) LED LRN is flashing x times in green (x = mode) $\left(\right)$ Press LRN button 2 times = mode 2 Assigning radio transmitters in learn mode allocates the Short press (1s) button MODE: LEDs off following standard functions 0 (Function Programming completed) Radio Transmitter Receiver's default function Wall Transmitter Window Contact Window Handle Motion Sensor Function 08 ⇒ Mode 11 Light Sensor Function 09 ₽ Mode 04 • Protect power supply line with a MCB (F = max. 16A). FUNCTION PROGRAMMING: · Mount the wall box in a suitable position Set Function and Mode Long press (3s) LRN button FUNCTION PROGRAMMING LED LRN and MODE are flashing green Activate radio transmitter once Press button or learn button of the transmitter once FUNCTION (LED LRN is flashing x times in orange) Press LRN button x times (x = function) Short press (1s) MODE button MODE (LED LRN is flashing x times in green) Press LRN button x times (x = mode) Short press (1s) MODE button Function Programming completed (LEDs off)

PROGRAMMING

recommended.

STATUS ACKNOWLEDGES

- Switch off mains voltage.
- Ensure that the device is mounted on an even surface in the
- vertical plane.
- Install the device as shown in wiring diagram.
- Secure device in the wall box.
- Switch on mains voltage.
- Assign transmitters (max. 32) to the receiver's channels (see PROGRAMMING)

tton simultaneously
smitters
(red for 3s)

LED LRN is flashing x times in orange (x = function)

TROUBLESHOOTING

NEW SYSTEM OR EXISTING SYSTEM

- Check circuit breaker and power supply Caution: Electrician only
- Check connection cables
- Caution: Electrician only
- Check connected electrical loads.
- Check the system's surroundings for changes that could cause interference (e.g. metal cabinets, furniture or walls which have been moved)
- Delete all transmitters and reprogramme the receiver.

RECEIVER SWITCHES BY ITSELF

This may be caused by operation of an external transmitter that was coincidentally assigned to the receiver. Delete all transmitters and reprogramme the receiver

RANGE LIMITATIONS

- Use of the device in the vicinity of metal objects or materials with metal components
- Note: Maintain a distance of at least 10 cm.
- Moist materials.
- Devices which emit high-frequency signals (e.g. audio and video systems, computers, electronic ballasts in light fixtures). Note: Maintain a distance of at least 0.5 m

CONTACT

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GENERAL INFORMATION

DISPOSAL OF THE DEVICE

Do not dispose of old devices in the household waste! The device must be disposed of in compliance with the laws and standards of the country in which it is operated!

The device contains electrical components that must be disposed of as electronics waste. The enclosure is made from recyclable plastic

WARRANTY CONDITIONS

These operating instructions are an integral part of both the device and our terms of warranty. They must be handed over to the user. The technical design of the appliance is subject to change without prior notification. PEHA products are manufactured and guality-checked with the latest technology according to applicable national and international regulations. Nevertheless, if a product should exhibit a defect. PEHA warrants to make remedy as follows (regardless of any claims against the dealer to which the end user may be entitled as a result of the sales transaction):

In the event of a justified and properly established claim, PEHA shall exercise its prerogative to either repair or replace the defective device. Further claims or liability for consequential damage are explicitly excluded. A justifiable deficiency is deemed to exist if the device exhibits a structural, manufacturing, or material defect that makes it unusable or substantially impairs its utility at the time it is turned over to the end user. The warranty does not apply to natural wear, improper usage, incorrect connection, device tampering or the effects of external influences. The warranty period is 24 months from the date of purchase by the end user from a dealer and ends not later than 36 months after the device's date of manufacture. German law shall be applicable for the settlement of warranty claims.

CONFORMITY DECLARATION

PEHA products may be sold and operated in EU countries as well as in CH, IS and N. PEHA herewith declares that the receiver 451 FU-EBI(M) o.T. is in compliance with the fundamental requirements and other relevant provisions of R&TTE Directive 1999/5/ EC. The conformity declaration is available on the Internet at the following address: www.peha.de.

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FUNCTIONS



FUNCTION 1

тw	TWO-BUTTON OPERATION		
мо	MODE		
1	Press button O = Switch off Press button I = Switch on		
2	Press button O = Switch on Press button I = Switch off		
3	Press button O = Switch off after 3 min. Press button I = Switch on		
4	Press button O = Switch off after 5 min. Press button I = Switch on		
5	Press button O = Switch off after 10 min. Press button I = Switch on		
6	Press button O = Switch off after 30 min. Press button I = Switch on		
7	Press button O = Switch off after 3 min.		
8	Press button O = Switch off after 5 min.		
9	Press button O = Switch off after 10 min.		
10	Press button O = Switch off after 30 min.		

1 NOTES

- Mode 3-6 are suitable for movement sensors. - Mode 7-10 are suitable for time-delayed power deactivation of sockets. A different radio transmitted with appropriate

functionality is required to switch on!

FUNCTION 2

ON	ONE-BUTTON OPERATION		
мо	MODE		
1	Press button O	= Change-over	
2	Press button I	= Change-over	
3	Press button O / I	= Change-over	
4	Press button O	= Switch off	
5	Press button I	= Switch off	
6	Press button O / I	= Switch off	
7	Press button O Press button I	= Switch off = Change-over	
8	Press button O Press button I	= Change-over = Switch off	

FUNCTION 3

BU1	BUTTON OPERATION			
мо	MODE			
1	Press button O Release button O	= Switch on = Switch off		
2	Press button I Release button I	= Switch on = Switch off		
3	Press button O / I Release button O /	= Switch on I = Switch off		
4	Press button O Release button O	= Switch on for 5s = Switch off		
5	Press button I Release button I	= Switch on for 5s = Switch off		
6	Press button O / I Release button O /	= Switch on for 5s I = Switch off		

но	TEL CARD			
OP	RATION			
Insert the hotel card		Switch on		
Ren	nove the hotel card	Mode 7-10		
мо	DE			
7	Switch off after 1 min			
8	Switch off after 3 min	witch off after 3 min.		
9	Switch off after 5 min			
10	Switch off after 10 mi	n.		
UN STA	CTION 4			
OP	RATION			
Lon	n pross button 0 / I	Switch on for 4 hours		
	g press button 0 / 1	Switch on for 4 hours		
Sho	rt press button O / I	Mode 1-5		
Sho MC	rt press button O / I DE	Mode 1-5		
Sho MC	rt press button O / I DE Switch on for 2 min	Mode 1-5		
Sho MC 1 2	rt press button O / I DE Switch on for 2 min Switch on for 5 min	Mode 1-5		

4 Switch on for 30 min.

5 Switch on for 60 min.

back on again for 30s.

i

TIME SWITCH

OPERATION

Press button O

Press button I

FUNCTION 5

FAN CONTROL

Function

3 minutes

OPERATION

MODE

Programming receiver:

6 Switch on for 2 min. 7 Switch on for 5 min.

8 Switch on for 10 min.

9 Switch on for 30 min.

10 Switch on for 60 min.

Mode

NOTE: When the switch on time is over, the lighting

is switched off for 2s (turn off warning), then switched

Switch off

Mode 6-10

Realisation of illumination with fan control by using two Easy-

click receivers and one transmitter. The first receiver is used for

Assign the transmitter to the first receiver (fan control),

Assign the transmitter to the second receiver (light control)

Button I will switch the light on. The fan will switch on after

Button O will switch the light off. The fan will be switched off

fan control and the second for light control

set function 5 and mode 1 to 6.

and e.g. set function 1 and mode 1.

after expiration of the follow-up time.

Press button I Switch on after 3 min. Press button O Mode 1-6

1 Switch off after 2 min. 2 Switch off after 6 min. 3 Switch off after 10 min. 4 Switch off after 15 min. 5 Switch off after 20 min. 6 Switch off after 30 min.

FUNCTION 6

LIGHTING SCENE A-D

SCENES

An additional radio transmitter is necessary to memorise and activate a light scene. In the case of a system with several receivers, each receiver must be programmed, and the radio transmitter assigned!

Programm receiver: Assign radio transmitter

- Set function 6 and the desired mode.
- Store light scene A-D:
- Switch on the required light scene (receivers).
- Press button I or O of the transmitter for longer than 2s.
- The lighting goes off and on as confirmation. Select light scene A-D:
- Short press button I or O on the transmitter.

MODE

- Short press button O = Switch on scene A Long press button O = Store scene A
- Short press button I = Switch on scene B Long press button I = Store scene B Short press button O = Switch on scene C
- Long press button O = Store scene C
- Short press button I = Switch on scene D Long press button I = Store scene D

FUNCTION 7

	WIN	WINDOW CONTACT AND WINDOW HANDLE				
	мо	ODE				
	1	All window contacts closed = Switch off Window contact opened = Switch on				
	1	All window handles closed = Switch off Window handle opened = Switch on				
	2	All window contacts closed = Switch on Window contact opened = Switch off				
		All window handles closed = Switch on Window handle opened = Switch off				
	3	Window visualisation (without switching function) Status message: window open/closed				

1 NOTES

For purely window visualisation purposes without switching function, window contacts and window handles must be assigned to Mode 3 (e.g. for handheld transmitter, PC visualisation. etc.).

- The assignment and programming of a window contact is also possible before the installation!
- To activate (identify) the window contact during learn mode or function programming press the programming button of the window contact once
- To activate (identify) the window handle during learn mode or function programming open or close the handle once.

MOVEMENT DETECTOR AND LIGHT SENSOR

Specifically functions 8 and 9 are suitable for movement detectors and light sensors. Movement detectors can be used with an integrated or external light sensor. The captured data are sent by RF signal to the receiver for evaluation. Assigning these in learn mode first allocates the following default functions:

Name	Default function
Light Sensor	Function 09 ⇔ Mode 04
Movement detector	Function 08 ⇔ Mode 11
Movement detector with integrated light sensor	Function 08 ⇔ Mode 04

NOTE: The function and mode can be changed when necessary (see PROGRAMMING).

Light value:

	dark	
25 lx		
50 lx		
75 lx	•	
	light	

FUNCTION 8

FULLY AUTOMATIC			
FUN	ICTION		
Presence and light value from mode 1-12 not exceeded		ı	Switch on
Abs	ence or light value exceed	ded	Mode 1-12
мо	DE		
1	Switch off after 2 min.	(125 lx)	
2	Switch off after 5 min.	(125 lx)	
3	Switch off after 15 min.	(125 lx)	
4	Switch off after 2 min.	(250 lx)	
5	Switch off after 5 min.	(250 lx)	
6	Switch off after 15 min.	(250 lx)	
7	Switch off after 2 min.	(375 lx)	
8	Switch off after 5 min.	(375 lx)	
9	Switch off after 15 min.	(375 lx)	
10	Switch off after 2 min.	(PIR wit	thout light measurement)
11	Switch off after 5 min.	(PIR wit	thout light measurement)
12	Switch off after 15 min	(PIR wit	thout light measurement)

FUNCTION 9

SEMI AUTOMATIC			
FUNCTION			
Absence or light value exceed		ded	Mode 1-12
MODE			
1	Switch off after 2 min.	(125 lx)	
2	Switch off after 5 min.	(125 lx)	
3	Switch off after 15 min.	(125 lx)	
4	Switch off after 2 min.	(250 lx)	
5	Switch off after 5 min.	(250 lx)	
6	Switch off after 15 min.	(250 lx)	
7	Switch off after 2 min.	(375 lx)	
8	Switch off after 5 min.	(375 lx)	
9	Switch off after 15 min.	(375 lx)	
10	Switch off after 2 min.	(PIR without light measurement)	
11	Switch off after 5 min.	(PIR wit	hout light measurement)
12	Switch off after 15 min.	(PIR wit	hout light measurement)

card switch

ENOCEAN SERVICE RLT (Slave)

receiver's site before it is installed.

The EnOcean Service RLT (RadioLinkTest) allows the operator to test the distance between an Enocean transmitter (e.g. handheld transmitter 450 FU-HS 128) and a receiver.

This test is evaluated by the master. The receiver is used as a slave. This function is ideal for testing the suitability of the

Short press (1s) MODE and LRN button simultaneously Service RLT (Slave) activated

LED LRN and MODE are flashing green and orange

Short press (1s) MODE button Idle state (LEDs off)

NOTE: The EnOcean Service RLT ends automatically after 30 s or successful with the after 30 s or successful evaluation!