

PRODUCT DESCRIPTION

IMPORTANT!

In order to get the best out of your system it is important you take the time to read through the manual before you start to install/program your equipment.

The system (**EF-7700**) consists out of two parts: the transmitter (**EF-7602**) and the receiver including wiring (**EF-7701**).

The transmitter and receiver are preset and factory coded. This means that the system is ready for use. Every transmitter has a fixed, unique serial coding which has been programmed into the receiver, so that another transmitter cannot control the receiver.

APPLICATIONS

The receivers and transmitters of the System EF-7700 are preprogrammed. They are meant to control fixed or mobile equipment with a limited amount of functions.

SAFETY

Ensure that:

- Appropriate personnel receive a review of the systems' functions before it is used.
- Only appropriate personnel have access to the transmitter.
- The transmitter is not left unsupervised.
- The operator always has a complete view of the equipment when it is radio controlled.
- Be sure that your hydraulic lift application is shut off during transit.

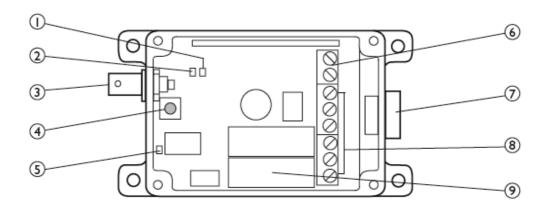
CAUTION: tampering with the product, changing the settings or using the product in a fashion other than as set forth herein can lead to product malfunctions which in turn can lead to serious injuries or death. Any tampering, unauthorized change in the product, misuse or abuse will invalidate SPX's warranty on the product.

RECEIVER EF-7701

Operating voltage: Power consumption: **Dimensions:** Protection: Climatic conditions:

12-30 V AC/DC 30-80 mA 54 x 96 x 37 mm IP 65 -30°C to +70°C Humidity: 10%-90% EF-7702

Compatible transmitter:



1. Yellow LED

Lights up when the receiver has the correct operating voltage.

2. Green LED Lights up when the receiver receives a radio signal.

BNC-connector for the antenna. 3. BNC

- 4. Pushbutton Program receiver / erase receiver.
- 5. Red LED
- Lights up during programming. 6. Connection terminal Connection terminal for voltage.
- 7. Cable with plug Cable connection to motor relays.
- 8. Connection terminal Connection terminal for relays.
- Two separate relays. Max. Over load relay 9. Relays is 8 A for resistive load.



TRANSMITTER EF-7702

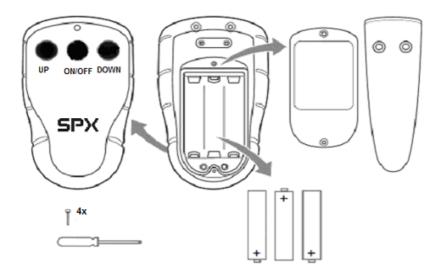
FUNCTION

The transmitter must be activated by pushing the ON/OFF button for 3 seconds. After that the UP or DOWN button can be used for operating the system.

The transmitter is active when the LED glows steadily.

Note: if the transmitter is not used within 60 seconds, it turns off automatically. Pushing the ON/OFF button for 3 seconds activates the transmitter again.

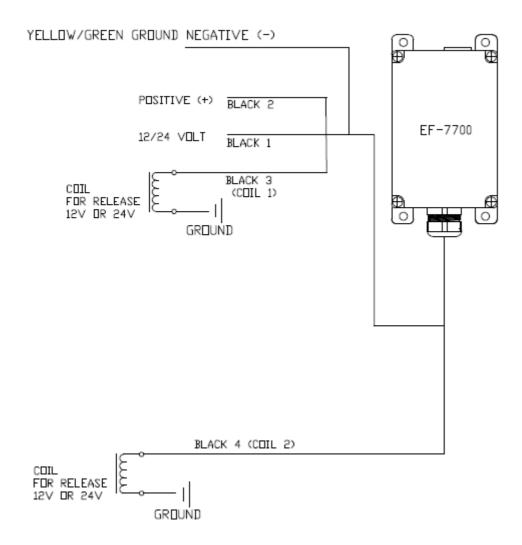
Battery replacement 3 batteries, AAA 1,5 V.



PREPARATIONS

ASSEMBLY AND INSTALLATION

- 1. Select a suitable location for assembly of the receiver.
- 2. Connect the Positive (+). (BLACK 2)
- 3. Connect the ground cable of the receiver (YELL/GR)
- 4. Connect the first coil (BLACK 3)
- 4. The black cable (4) is to connect a second coil when using a 3P/4W valve. If not used please protect or cut off.
- 5. Place a fuse between the receiver and the battery to prevent damage from short circuits to the receiver.



PLACEMENT OF THE RECEIVER

- Select a location, if possible, that is protected from the wind and weather. Place it with cable-glands facing downward.
- Avoid locations where the receiver may be exposed to abnormal moisture conditions, e.g. during high pressure washing.
- Avoid locations close to metal objects, electrical cables and antennas. Provide the receiver with a separate power supply.

NOTE! Upon delivery the receiver will be pre-wired. ! The following instructions should only be used in case of reconnecting the wiring.

RELAY 1			RELAY 2			12-24	
сом	NC	ND	СПМ	NC	ND	+	GND
1	2	3	4	5	6	7	8
BL2	BL4		BL2	ВLЗ		BL2	Y/GR

Rewiring the receiver:

Connect the right wiring to the terminals

- Black 2 (+) and the yellow/green cable according to the above drawing.

Connect the signal cabling to the terminals for the relays:

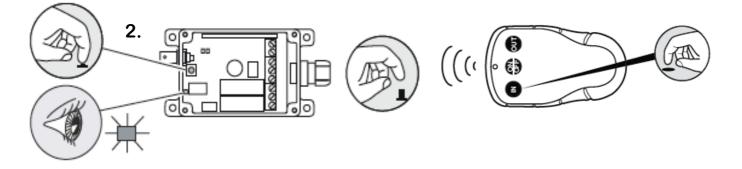
- Black 3 and 4 cables according to the above drawing
- Black 2 on the relays is pre-wired on the circuit boards.

STORING THE TRANSMITTER CODE:

How to program the id-code of the transmitter?

1. Unscrew the 4 screws to open the receiver.





- 2. Push the teach-in button on the receiver until the red LED lights up.
- 3. Release the button when the red LED light up.
- 4. Turn transmitter ON.
- 5. Push on any button of the transmitter that is to be used with the receiver. The ID-code will be programmed into the receiver, and the red LED will blink three times.
- 6. Check if the functions are correctly working by pushing the buttons of the transmitter and checking if the relays are being activated. The green LED will light up if the receiver receives the signal from the transmitter. When the transmitter is programmed into the receiver, the red LED in the receiver will blink continuously two times.

STOP INSTRUCTION

The teaching-in procedure can be stopped by pushing the button in the receiver for 6 seconds.

ERASING THE PROGRAMMED TRANSMITTER

You can erase the programmed ID-code of the transmitter by pushing the button on the receiver for more than 8 seconds.

TROUBLE SHOOTING:

If the equipment does not work like it should, please check the points here under.



PROBLEM	POSSIBLE CAUSE	SOLUTION	
The YELLOW LED	The receiver is not	Check the	
of the receiver does	well connected to	connection of the	
not light up.	the power supply.	power supply.	
	Incorrect power	Check the power	
	voltage supply.	voltage supply.	
The GREEN LED on	The transmitter code	Program/teach-in the	
the receiver lights	has not been stored	transmitter code in	
up, but the relays do	in the receiver.	the receiver.	
not react.			
The GREEN LED in	The battery in the	Replace the battery.	
the receiver does not	transmitter is empty.		
light up, while the			
transmitter is	The transmitter is	Contact your	
transmitting.	broken.	supplier.	
The GREEN LED in	In the surrounding of	Contact your	
the receiver lights	the receiver, another	supplier.	
up, although the	transmitter is being		
transmitter is not	used on the same		
transmitting.	frequency.		
The LED of the	The battery of the	Replace the battery.	
transmitter does not	transmitter is empty.		
light up when you	The transmitter is	Contact your	
transmit.	broken.	supplier.	
The range of the	The battery in the	Replace the battery.	
system is too small.	transmitter is almost		
	empty.		

Please contact your supplier if you have tried out all solutions, but your system still does not work properly.



RECYCLING, SCRAPPING

EF-7700-systems and any accessories and spare parts no longer in use should be scrapped and recycled according to local environmental regulations.

