

Wireless Lighting Tool

SRC 4001 SK

User Manual



wireless54

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Manual No.:

54xxx

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1 Product Information

The easy to use tool SRC 4001 is offering priceless support during project planning of Detectomat wireless fire control panels SRC 3000 and SRC 4000 systems.

Damping in relevant radio frequencies like 433 MHz and 868 MHz will be identified and evaluation of on-site conditions will be simplified. With the information given, you can allocate the ideal location for your wireless control panel.

Additionally and in advance, potential disturbances like extrinsic radio on operating frequencies of the Detectomat wireless control panel will be detected.

The wireless lighting tool SRC 4001 SK, consisting of 2 field meter - transmitter and receiver.

Operating frequencies 433 MHz and 868 MHz are adjustable according to the installed system.

One of the two devices will be defined by the operator as transmitter and positioned at the place of installation of the radio control panel or at the repeater. The second field meter will be used as receiver.

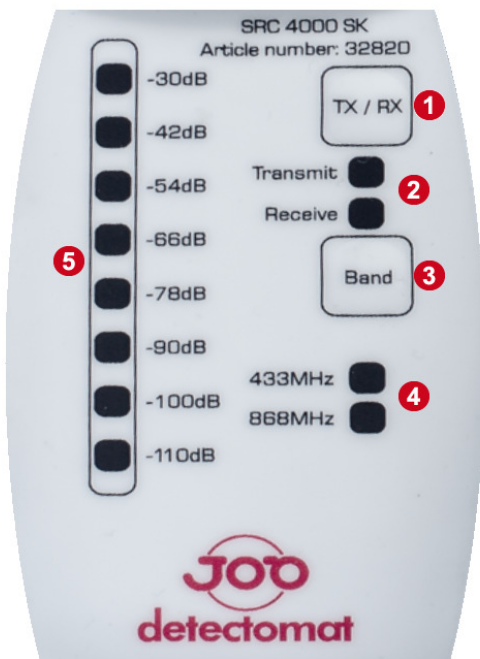
With changing of location on-site, building/object respectively, metering of signal strength at the receiver will be possible due to constant sending of the transmitter.

The wireless lighting tool SRC 4004 SK is to initially estimate the realisation and extent of the wireless control panel only.

During implementing of the wireless systems, all Detectomat wireless fire control systems are measuring independent the signal strengths between the components. The measured data are more accurate and basis for the actual realisation of the wireless installation.




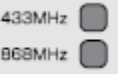

1.1 operating and display area

The operating and display area of the wireless lighting tool SRC 4001 K is on both field intensity meter identical. Each device can be used either as transmitter or receiver. The operating and display area are sectioned as following mentioned:



- 1 Switching On /Off, Setting of Transmitter / Receiver
- 2 Display of transmitting or receiving function
- 3 Selection of frequency band
- 4 Display of activated frequency band
- 5 Display of receiving or transmitting signal strength

The display and operating area of the wireless lighting tool SRC 4001 SK is equipped with 2 switch keys und 12 LEDs.

Labelling/Colour	Specification
	Switch On field intensity meter via key [TX/RX] . Press TX/RX-Taste and activate the device. Press the key for approx. 2 seconds to Switch Off the device.
	Press key [TX/RX] to change function Transmitting and Receiving of the corresponding field intensity meter. The LED indicates the corresponding operational mode.
	Press key [Band] to change between operating frequency (433MHz or 868MHz) of the wireless fire control system SRC 3000 and SRC 4000.
	Operating frequency of the SRC 3000 FCP – 433,420 MHz, bandwidth 600 kHz. Operating frequency of the SRC 4000 FCP – IBN frequency 869,263 MHz, bandwidth 600 kHz.
	LED Display - Signalstrength: The LED Display is divided in 8 LEDs of different colour. 3 of the LEDs below, from -90 to -110 dB are coloured in red. 3 of the LED, in the center, from -54 to -78 dB are coloured yellow. 2 of the LED's above, from -42 to -30dB are coloured green.. Damping of 90 dB max. only, corresponding to a display of 3 active signalstrength LEDs. A frictionless communication of the wireless fire control systems SRC 3000 and SRC 4000 is no longer guaranteed if damping is increased according to 2 or less active signal strength LEDs . Output increase or decrease intermittently when transmitting. LEDs indicating the signalstrength.

1.2 Operation

- For planning and setting of a wireless fire control panel, it is quite helpful to know if additional RF signals (potential radio interference) are existing within the installation. The SRC 40001 SK is as a rough indication for: Activate one device of the field intensity meter as Receiver. Ideally, there is none or just a low indication of RF signals in the installation area of the wireless fire control system
- Type of Antennae: According to the planned type of wireless fire control panel, a short or long type of the antenna is given. Please use the long antenna for the SRC 4000 FCP System and the short one for the SRC 3000.
- Switch-On: Switch On field intensity meter via key [TX/RX] . Press TX/RX-Taste and activate both devices.
- Select working frequency via key [Band]. Select 868 MHz for the SRC 4000 FCP System, and 433 MHz for the SRC 3000 system.
- The devices will be defined by the operator. Press key [TX / RX] for transmitter or receiver. Change of function via key [TX/RX] Taste.
- The transmitter will be positioned vertically on the master within an object, e.g. assembly area of the wireless fire control panel or assembly area of the wireless repeater. 0,3m distance max.

- g. The receiver will be positioned vertically nearby the planned assembly area of the wireless component. Subsequently, the signal strength will be read every second. Changing the position within the object, the best possible position of the wireless components will be defined by the operator.
- h. Reading only at max damping of the measuring section, e.g. with closed doors.
- i. The more LEDs flash every second at the receiver, the stronger the receiving RF signal. Empfänger. A sufficient signal strength is given with signalling of 3 LEDs (-90dB).
- j. If signalling is less than 3 LEDs (-90dB), adjust the position of the components or use a wireless repeater to increase the signal range.
- k. For the use and positioning of wireless repeater it is essential, to consider a power supply of 230V/AC.
Please note, cascading of the wireless repeater is possible, when using the wireless fire control system SRC 4000 FCP.

1.1.1 Additional Function

Specification	
Automatic Switch-Off	Within 10 min
Noise Level Meter:	Additional frequencies will fade down, expect working frequency of the SRC 3000 and SRC 4000

1.1.2 Accessories

Specification	
Antennae	2 different types, according to working frequency (433 MHz or 868 MHz) mountable
Spare Battery	Battery Type: CR2450
Carrying Strap	

2 Technical Data

Item Number	32820
Extension	2 Field Intensity Meter, 2 Antennae, Spare Battery,
Working Frequency	433,920 MHz for the SRC 3000 System, 869,263 MHz for the SRC 4000 FCP System
Power Supply	Battery Type : CR2450 3V 20mA
Transmitting Power	3 mW
3dB bandwidth	+/-400kHz
Temperature	Ambient temperature of -5 to +40 °C storage temperature of -20 to +60 °C (without battery)
Admissible ambient air humidity	Max. 95 % (non-condensing)
Material	ABS / PC
Weight	180 g
Dimensions (H x B x T)	80 mm x 51 mm x 24 mm