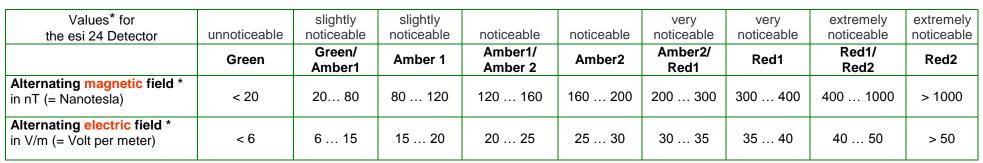
esi 24 - QUICK START GUIDE

EMF Detector / Electro-Smog Detector - with high-resolution RF mode (enhanced sensitivity) 50 MHz to 8 GHz frequency range - excellent Wi-Fi / WLAN detection

Tables for standard operating mode (display shows field strength by means of LED light-emitting diodes)

Low-frequency magnetic and electric fields. Measuring range 16 Hz - 3 kHz.



^{*}All values are peak values. The values for individual units can slightly vary from the values specified in the table as a result of differences in individual electronic components.

High-frequency field strength (radio waves and microwaves). Measuring range 50 MHz - 8 GHz, values in μW/m² (= microwatts per square meter).

Values* for the esi 24 Detector	unnoticeable	slightly noticeable	slightly noticeable	noticeable	noticeable	very noticeable	very noticeable	extremely noticeable	extremely noticeable
	Green	Green/ Amber1	Amber1	Amber1/ Amber 2	Amber2	Amber2/Re d1	Red1	Red1/ Red2	Red2
Frequencies around 0,9 GHz *	< 2	2 4	4 10	10 20	20 31	30 50	50 75	75 100	> 100
Frequencies around 1,9 GHz *	< 10	10 20	20 45	45 85	85 130	130 200	200 300	300 450	> 450
Frequencies around 2,5 GHz *	< 20	20 40	40 100	100 200	200 300	300 500	500 750	750 1000	>1000
Frequencies around 5,0 GHz *	< 80	80 150	150 380	380 750	750 1100	11001850	18502800	28003900	> 3900



Table for high-resolution RF mode (enhanced sensitivity) - EMF Detector esi 24

Measuring range 50 MHz - 8 GHz, values in μW/m² (= microwatts per square meter), table of values is optimised for frequencies ~ 2.5 GHz

HF- radiowaves &	Radiation level in uW/m²*			
microwaves	(~ 900 MHz)	(~ 1,9 GHz)	(~ 2,5 GHz)	(~ 5,0 GHz)
LED1	> 0,01	> 0,04	> 0,09	> 0,33
LED2	> 0,06	> 0,25	> 0,6	> 2,5
LED3	> 0,25	> 1,0	> 2,5	> 10
LED4	> 1,0	> 4,2	> 10	> 40
LED5	> 2,2	> 8,8	> 20	> 80
LED6	> 4,2	> 17,0	> 40	> 150
LED7	> 5,5	> 22,0	> 50	> 200
LED8	> 8,5	> 33,0	> 75	> 300
LED9	> 11,0	> 43,0	> 100	> 380
LED10	> 27,0	> 105	> 250	> 950
LED11	> 52,0	> 205	> 500	> 1850
LED12	> 78,0	> 310	> 750	> 2800
LED13	> 110	> 435	> 1000	> 3900
LED14	> 140	> 550	> 1250	> 5000
LED15	> 165	> 650	> 1500	> 5900

^{*} All values are peak values. The values for individual units can slightly vary from the values specified in the table as a result of differences in individual electronic components.

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Operation of esi 24

• Insert / change battery:

Open the battery compartment, connect the 9 V-battery to the terminal and then place battery in the compartment. Please ensure that the battery cable is not put underneath the battery but is placed at the side of the battery, between the battery and the compartment wall.

How to turn on the unit:

To switch the device on, press and release the "on/off" button once.

• 3 LEDs for each field type and HF LED red light up briefly to test operation. The sound is activated.

When switched on, the esi 24 Detector is in standard operating mode.

To switch the sound on/off, press and hold the "on/off" button once.

To switch the device off, press and release the "on/off" button once.

For best detection of Electro-Smog, hold the esi 24 Detector with your arm extended away from your body.

Standard operating mode:

In standard operating mode the LF electric and magnetic field strength and the HF power flux density / field strength are measured simultaneously.

- LF magnetic and electric fields: electrical equipment, computers, lighting, radio alarm clocks, network components ...
- Radio waves (high frequency): cell phone towers, cell phones, DECT cordless telephones, wireless internet (wi-fi), baby monitors,
- Radiation leakage from microwave ovens

Radiation levels / EMF levels increase and decrease as a result of:

- the distance from the source
- the power of the source / transmitter
- the type, structure and direction of the transmitter
- reflection of the radiation by neighbouring objects
- environmental, geographical and weather conditions
- the type, structure and shielding properties of the buildings concerned

Sound frequency changes with increasing field strengths.



High-resolution RF mode (with enhanced sensitivity):

To change to high-resolution RF mode, press and release the "select" button once.

The display is now in high-resolution RF mode.

• LED 1 and 2 will light up. All 15 LEDs now show HF radiation. LED 1 (bottom left) shows the lowest radiation, Led 15 (top right) shows the highest radiation level.



Locating mode:

To change to locating mode, press and release the "select" button once again.

The two LEDs at the top of the display unit are activated. The lower green LED is activated permanently, the upper red LED comes on when an electric field is present.

In locating mode, concealed electric cables, junction boxes and similar can be located.



• "Hold" mode:

To switch to "hold" mode, press and hold the "select" button once again.

The reading is held on the display and LEDs are flashing.

"Hold" mode is useful for measurements where the display is difficult to read or cannot be seen at all, such as under a bed or desk or behind a piece of furniture. Please note: Hold mode is not available in locating mode.

To switch off the device, press the "on/off" button once. The device can be switched off from any mode.



Checking the battery:

The esi 24 electro-smog detector automatically checks the battery level.

If battery power is low, the red locating mode LED flashes several times and the device switches off automatically.

Reliable indication of field strength cannot be provided until the battery is replaced.

Do not throw away the 9 V battery; it may be possible to use the battery in other devices (e.g. remote controls or similar).

Contact: www.safespace.net.nz