



30 000 053 - 2

**Wireless sensor
Smoke alarm FRW-ws**

Temperature at mounting location:
-10°C up to +60°C.
Storage temperature: -25°C up to +70°C.
Relative humidity:
annual average value <75%.

Wireless smoke alarm Detectomat HDV 3000 OS, white, with wireless transmitter module inserted. Only 0.03 mW standby loss of the wireless transmitter module.

This battery-powered smoke alarm is a reliable device that generates an alarm in case of fire by visual detection based on the scattered light principle. Certified to EN 14604:2005 by the VdS (German independent testing institution). Alarm signal produces loud tone at intervals of 0.5 second. Operation indication every 40 seconds by flashing red LED. Fault and battery change display by short alert tone every 40 seconds.

In case of an alarm, the inserted wireless transmitter module transmits an NO contact telegram to the Eltako wireless network. This also takes place when the test button is pressed.

While the alarm sounds, the telegram is repeated every 10 seconds. Power consumption during an alarm is 23 µA from a fitted 9 V lithium battery that powers the smoke alarm. As soon as the alarm is cleared, 2 button NC contact telegrams are sent at an interval of 400 ms. Every 20 minutes, a button NC contact telegram is sent as status telegram.

If the battery voltage is less than 7.2 V, a battery status telegram is sent in addition. It can be taught into an actuator in the same way as the upper NO contact of a left double-switch rocker.

A single FRW-ws can be taught in actuators FLC61, FMS14, FMZ14, FMZ61, FSR14, FSR61 and FSR71.

Several FRW-ws devices can be taught in the FZK actuators. By logic linking, alarm end is only signalled when all FRW-ws devices send no more alarms.

Battery life cycle of 9V lithium approx. 6 years, 9 V alkaline approx. 3 years.

A lithium battery is contained in the scope of supply.

Teaching-in smoke alarm in actuators or GFVS software:

Actuator FSR...: set to 'Teach-in universal button' ('Button on/off'): press test button of the FRW. As soon as the warning tone sounds, release the test button.

After teach-in, set the actuator to the ER (without EW time) function.

Battery types (for detectors with wireless modules we recommend lithium batteries)
Approved battery types: FDK CP-V9J, Ultra-life U9 VL-J / -P, Panasonic Power Alkaline 9 V, Varta 4022 Alkaline 9 V, AlkalineXtreme 6LR61 9 V.

Changing batteries:

1. Remove the smoke alarm from the base by turning it anticlockwise.
2. Connect the new battery to the smoke alarm (ensure correct polarity!) and insert it in the battery compartment provided.
3. Place the upper part containing the new battery onto the base and fix it by turning it clockwise.
4. Check whether the LED flashes.
5. Perform a functional test.

Functional test:

Press the fiber optic rod for at least 1 second. If the test is successful, a beep will sound. The smoke detector works correctly. If no beep sounds, the device is not functional. If this happens, replace the battery and run the test again.

If no beep sounds again, the smoke detector is defective and must be replaced with a new one.

Alarm silencing:

In the case of an alarm, the alarm silencing function can be activated by pressing the light bar. The smoke alarm is silenced. The LED flashes every 10 seconds. After 10 minutes, the smoke detector returns to normal operation.

Alarm Memory:

If the LED flashes 3 times every 40 seconds, then the smoke detector has issued a smoke alarm in the last 24 hours. To reset the alarm memory, the fiber optic bar must be pressed.

Technical data

Detection principle	Tyndall effect (optical)
Visual alarm display	optic (red LED) and acoustic alert tone >85 dB(A)/3 m
Regulations fulfilled	EN 14604:2005
Operating voltage (DC voltage)	9 V
Operating temperature	-10°C to +60°C
Max air humidity	95%
Max monitoring area	60 m ² up to 6 m high
Max air velocity	20 m/s
Response sensitivity typical	0.15 dB/m
Protection class	IP40
Weight approx.	150g
Dimensions with base max. (dia x H)	100x55 mm

The crossed-out waste container indicates that batteries may not be disposed with other household or commercial waste. Batteries can be returned free of charge to the retail outlet after use.



Attention: Danger of explosion if battery is replaced improperly. Only replace it by an equivalent type!



THE UNIQUE WIRELESS **PROFESSIONAL SMART HOME STANDARD**

Frequency	868.3 MHz
Transmit power	max. 10 mW

Hereby, Eltako GmbH declares that the radio equipment type FRW-ws is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: eltako.com

Must be kept for later use!

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