



# FireVibes WD300 Wireless Multi Criteria Detector Instruction Manual

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**FireVibes WD300 Wireless Multi Criteria Detector**



## Product Information

The WD300 FireVibes series detector is a wireless multi-criteria detector that samples the air and environmental temperature in the protected area. It is designed to detect fire by monitoring the environmental smoke quantity, temperature level, and thermal variation rate. When any of these parameters exceed a certain degree, a fire alarm message is sent to the control panel. The detector is battery-powered and does not require any system cabling installation. The WD300B is a black version of the WD300, and all the instructions and pictures provided in the user manual are applicable to both versions.

## Product Usage Instructions

1. Select a suitable location for the detector using the EWT100-TESTER survey kit for wireless installation.
2. Unbox the detector from its packaging.
3. Detach the detector from its base.
4. Detach the battery cover from the detector.
  - Link the detector to the system by extracting the insulating tab. Refer to the user manual for detailed instructions on linking with the insulating tab.
  - Alternatively, power up the detector without the insulating tab and then link it to the system by moving the link program switch. Refer to the user manual for detailed instructions on linking without an insulating tab.
5. Reinstall the battery cover on the detector.
6. Detach the identification tag from the base adapter.
7. Install the base adapter.
8. Install the detector on the base adapter.
9. Install the identification tag on the base adapter with relevant information written or labeled on it.
10. Secure the detector to its base with the safety anti-tamper screw.
11. Test the detector for proper functioning.

### Note:

Dust covers do not provide complete protection against contamination. It is recommended to remove the detectors before construction, major re-decoration, or any dust-producing work is started. Dust covers must be removed before the system can be made operational.

For more detailed information and instructions, refer to the user manual provided by INIM ELECTRONICS S.R.L.

## GENERAL DESCRIPTION

The WD300 FireVibes series detector samples the air and the environmental temperature in the protected area; when the environmental smoke quantity, the temperature level or the thermal variation rate exceeds a certain degree, a fire alarm message is sent to the control panel.

- WD300 is battery-powered and doesn't need any system cabling installation.
- WD300B is a black version of WD300. All pictures below showing the white version are also valid for the black version.

1. LED indicators
2. Battery A
3. Battery B
4. Link program switch
5. Tamper spring (internal)
6. Tamper switch (external)
7. Battery cover
8. Battery cover latch
9. Insulating tab
10. Wall fixing openings
11. Identification tag
12. Identification tag lodgement
13. Magnet test area
14. Base/detector reference marks
15. Safety screw



## DEPLOYMENT PROCEDURE

1. Select a location for the detector. See LOCATION SELECTION.
2. Unbox the detector from its packaging.
3. Detach the detector from its base. See INSTALLING / REMOVING THE DETECTOR.

4. Detach the battery cover from the detector. See BATTERY COVER.
5. **5.1)** Link the detector to the system (insulating tab extraction).
  - See LINKING – WAKE-UP – WITH INSULATING TAB.
  - See LINKING – ONE-BY-ONE – WITH INSULATING TAB.
  - Power up the detector.
    - See POWERING UP – FIRST TIME USE – WITHOUT INSULATING TAB.
    - See POWERING UP – RECOVERY.
  - Link the detector to the system (moving the link program switch).
    - See LINKING – WAKE-UP – WITHOUT INSULATING TAB.
    - See LINKING – ONE-BY-ONE – WITHOUT INSULATING TAB.
6. Reinstall the battery cover on the detector. See BATTERY COVER.
7. Detach the identification tag from the base adapter. See IDENTIFYING THE DETECTOR.
8. Install the base adapter. See FIXING THE ADAPTOR BASE.
9. Install the detector on the base adapter. See INSTALLING / REMOVING THE DETECTOR.
10. Install the identification tag to the base adapter, with all relevant information written/labeled on it. See IDENTIFYING THE DETECTOR.
11. Secure the detector to its base with its safety anti-tamper screw. See INSTALLING THE SAFETY SCREW.
12. Test the detector. See TESTING.

- Dust covers DO NOT provide complete protection against contamination: detectors should be removed before construction, major re-decoration, or other dust-producing work is started.
- Dust covers MUST be removed before the system can be made operational.

## LOCATION SELECTION

- Select a location for the detector that conforms to your local applicable safety standards and that is in a good position for sending/receiving wireless signals to/from the father EWT100, IWT100, or XWT100 network device.
- Mount the detector as far as possible from metal objects, metal doors, metal window openings, etc. as well as cable conductors, and cables (especially from computers), otherwise, the operating distance may greatly drop.
- The WD300 must NOT be installed near electronic devices and computer equipment that can interfere with its wireless communication quality.

## BATTERY COVER

Detach the battery cover by pulling and lifting the closing latch. To reinstall the battery cover, insert its two hooks into their corresponding detector's recesses; then block it by pressing down the opposite side, until you hear the click of the closing latch.

- Always install the battery cover, since it is a vital part of the tamper detection feature. Make sure the battery cover is safely fixed, blocked and closed. Make sure that the internal tamper spring fits completely into its battery cover's lodgement. Check, more than once, that the cover's external tamper switch clicks when pressed.

## **INSTALLING/REMOVING THE DETECTOR**

- Rotate the detector clockwise on its adaptor base to install it.
- Rotate the detector anti-clockwise from its adaptor base to remove it.
  - Check the alignment of the raised reference marks on the detector and on the base.

## **IDENTIFYING THE DETECTOR**

The detector can be visually identified by the detachable tag imprinted with the adaptor base.

1. Detach the tag from the base.
2. Write/label the relevant identification information on the tag.
3. Insert the tag into its lodgement on the side of the adaptor base.

## **FIXING THE ADAPTOR BASE**

Fix the base to the wall with suitable screws.

- Always install the safety blocking screw.

## **INSTALLING THE SAFETY SCREW**

Always install the safety blocking screw.

- Please mind that LED signalling burns out battery power, therefore reducing batteries lifespan.

## **LED INDICATORS STATUS MESSAGES**

The two LED indicators communicate to the final user the status of the WD300.

Device status	LEDs indication
Power up (DIP on “ON”)	Blinks red 4 times
Power up (DIP opposite “ON”)	Blinks green 4 times
Entering wake-up mode	Blinks alternatively green / red 4 times
Link success (one-by-one)	Blinks green 4 times, then the same pattern again
Link failure (one-by-one)	Enters wake-up mode and signals “Entering wake-up mode” following this failure
Link success (wake-up)	Blinks green 4 times, then same pattern again
Link failure (wake-up)	Blinks green 4 times, then blinks red on once, then blinks alternatively green / red 4 times
Normal condition	LED off (can be programmed so as to blink green every wireless communication)
Alarm activation	Blinks red every 2 seconds
Battery fault	LED off (can be programmed so as to blink amber every 5 seconds)
Tamper fault	LED off
Replaced	Blinks amber 2 times
Test mode active	Blinks green

## POWERING UP AND LINKING – PRELIMINARY NOTES

- WD300 needs to be powered up with the supplied batteries.
- Linking is the operation through which WD300 is “wirelessly connected” to an EWT100, IWT100, or XWT100 FireVibes network device.

## LINKING – WAKE-UP – WITH INSULATING TAB

“Wake-up” linking consists of associating one or more child devices to the FireVibes system altogether in a single operation. Wake-up is performed either through the FireVibes Studio software or the EWT100 / IWT100 keyboard-screen interface; it CANNOT be done through XWT100 devices.

1. Create the “virtual model” of the WD300 either on FireVibes Studio or on the EWT100 / IWT100.
2. Pull out the insulating tab.
3. Trigger the wake-up procedure either from FireVibes Studio or from the EWT100 / IWT100.
4. Wait until the end of the “wake-up” linking procedure.
5. Check on FireVibes Studio or from EWT100 / IWT100 for linking success. Consult their user manual.

## LINKING – ONE-BY-ONE – WITH INSULATING TAB

“One-by-one” linking consists in associating one child device at a time to the FireVibes system. This operation is performed either through the FireVibes Studio software or the EWT100 / IWT100 keyboard-screen interface; it CANNOT be done through XWT100 devices.

1. Create the “virtual model” of the WD300 either on FireVibes Studio or on the EWT100 / IWT100.
2. Trigger the linking procedure either from FireVibes Studio or from the EWT100 / IWT100.
3. Pull out the insulating tab.
4. Wait the end of the “one-by-one” linking procedure.
5. Check on FireVibes Studio or from EWT100 / IWT100 for linking success. Consult their user manual.

When extracting the insulating tab, keep both batteries into their lodgements with your thumb, since they can be accidentally pulled out too.

### **POWERING UP – FIRST TIME USE – WITHOUT INSULATING TAB**

Use this procedure the first time you power up a WD300; the detector has not been supplied with the insulating tab.

1. Make sure the Link/program switch is set to “ON”.
2. Insert the two supplied batteries into their device's lodgments.

### **POWERING UP – DEVICE LINKED TO THE SYSTEM**

Use this procedure when a WD300 is successfully linked to its FireVibes system and you have to extract one or both batteries (e.g. batteries substitution).

1. Reinsert the battery or both batteries into their lodgments.
  - If performing a battery substitution, use two brand-new batteries and substitute both of them.
  - Do not touch the Link/program switch.

### **POWERING UP – RECOVERY**

Use this procedure when you fail to link successfully a WD300 or you want to link it again.

1. Move alternatively the Link/program switch 5 times.
2. Set the Link/program switch on “ON”.
3. Insert the two supplied batteries into their device's lodgments.

Always ensure that the batteries are installed properly, with their polarities matching the indications on the device.

## **Documents / Resources**



[FireVibes WD300 Wireless Multi Criteria Detector](#) [pdf] Instruction Manual  
WD300 Wireless Multi Criteria Detector, WD300, Wireless Multi Criteria Detector, Multi Criteria Detector, Criteria Detector, Detector