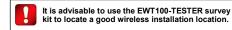
LOCATION SELECTION FireVibes WM110 Ui Wireless Battery Powered Input Module i

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Select a location for the module 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 module as far as possible from metal objects, metal doors, metal window openings, etc. as well as cable conductors, cables (especially from computers), otherwise the operating distance may greatly drop.

The WM110 must NOT be installed near electronic devices and computer equipment that can interfere with its wireless communication quality.



HANDLING THE TOP COVER

To uninstall the top cover unscrew the four module box's sealing screws and detach the cover. To install it perform the opposite operation; take care to seal the module in order to maintain its IP rating.

HANDLING THE PRINTED CIRCUIT BOARD

To uninstall the printed circuit board, remove first the two blocking fixing screws, then carefully extract the board from its box. To reinstall it, insert its lower side under the two plastic stops, then install the two blocking screws.

CABLE ENTRY

To avoid damage, remove the printed circuit board before knocking out the cable entry holes.

making connections.

Electrostatic sensitive device: observe precau-

tions when handling the printed circuit board and

The module box is designed with six M16/20 cable entry knockout holes, distributed on the lateral sides; the two entries above the input port give the best choice. These entries allow sealed, gland fitted input port cables to be connected to the device and, at the same time, to preserve the original IP protection rating. Fit the cable's gland (or glands) into the "knocked out" device box's cable entry.

WALL INSTALLATION

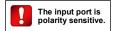
Knockout wall fixing screw openings are indicated in picture 1; these openings, once knocked out, compromise the IP rating of the module's box. Alternatively, you can choose to use the four IP safe screw holes (picture 1).

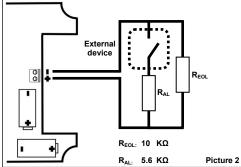
WIRING

The input line has to be connected to the input port of the module (picture 1)

Make sure to install the R_{EOL} resistor at the end of the input line.

If line supervision is not desired, fit the REOL directly across the input dipole at the beginning of the line.





BATTERY FAULTS AND BATTERY SUBSTITUTION PROCEDURE

When one or both batteries are low in charge, a specific fault message is routed to the control panel. If such event occurs:

1) Remove the top cover.

2) Extract both batteries.

Insert both new batteries into their holders, correctly oriented. See POWERING UP - DEVICE LINKED TO THE SYSTEM.

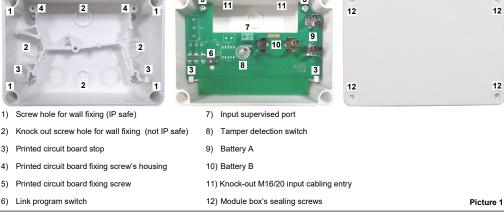
4) Reinstall the top cover.

TESTING

Test the module as follows:

- 1) Activate the device on the input line.
- 2) Check the triggering of the alarm condition.
- 3) Remove the alarm condition.

WM110 is battery powered and doesn't need any external power supply. 4 . 2



The WM110 is a device that acts as an interface between the FireVibes wireless security system and any external device that works on a

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DEPLOYMENT PROCEDURE

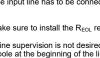
GENERAL DESCRIPTION

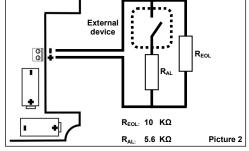
"switch on / switch off" criteria

- 1) Select a location for the module. See LOCATION SELECTION.
- 2) Unbox the module from its packaging.
- Detach the top cover. 3) See HANDLING THE TOP COVER.
- 4) Uninstall the printed circuit board from the box. See HANDLING THE PRINTED CIRCUIT BOARD
- 5) Knock-out the required M16/20 input cabling entries. See CABLE ENTRY.
- Fix the module's box to the wall. 6) See WALL INSTALLATION.
- 7) Power up the module. See POWERING UP - FIRST TIME USE. See POWERING UP - RECOVERY.
- 8) Link the module to the system. See LINKING - WAKE-ÚP. See LINKING - ONE-BY-ONE.
- Reinstall the printed circuit board. See HANDLING THE PRINTED CIRCUIT BOARD
- 10) Wire up the input cabling to the module. See WIRING.
- 11) Seal the module with its top cover. See HANDLING THE TOP COVER.
- 12) Test the module See TESTING.



Evolving Security





When a low battery condition is indicated, both batteries must be changed altogether.

Batteries must be brand new

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Do not touch the Link / program switch.

Ensure that the batteries are installed properly, with their correct polarities.



DCMIINE0WM110-130

LED INDICATOR STATUS MESSAGES

The LED indicator's messages are used only during installation and servicing.

LED indicator is inactive when the front cover is in place for saving up battery charge (and due to the fact that normally the LED is hidden by the front cover).

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 LED off (can be programmed so as to blink amber every 5 seconds)			
Battery fault				
Tamper fault	LED off			
Replaced	Blinks amber 2 times			
Input port fault	LED off (can be programmed so as to blink amber every 5 seconds)			

Table 1

	With the front cover installed, the LED indicator
	remains inactive.

POWERING UP AND LINKING - PRELIMINARY NOTES

WM110 needs to be powered up with the supplied batteries. Linking is the operation through which WM110 is "wirelessly connected" to a EWT100, IWT100 or XWT100 FireVibes network device.

POWERING UP - FIRST TIME USE

Use this procedure the first time you power up a WM110. 1) Make sure the Link / program switch is set on "ON". 2) Insert the two supplied batteries into their device's lodgments.

POWERING UP - DEVICE LINKED TO THE SYSTEM

Use this procedure when a WM110 is successfully linked to its FireVibes system and you have to extract one or both batteries (e.g. batteries substitution).

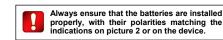
1) Reinsert the battery or both batteries into their lodgments.

If performing a batteries 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 WM110 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.

LINKING - WAKE-UP



"Wake-up" linking consists in 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 WM110 either on FireVibes Studio or on the EWT100 / IWT100.

2) Power-up the module (either "first time use" or "recovery"). 3) Set the Link / program switch OPPOSITE to "ON".

Triager the wake-up procedure either from FireVibes Studio or from the EWT100 / IWT100.

5) Wait the end of the "wake-up" linking procedure.

6) Check on FireVibes Studio or from EWT100 / IWT100 for linking success, Consult their user manual.

LINKING - ONE-BY-ONE

"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 child device either on FireVibes Studio or on the EWT100 / IWT100.

2) Trigger the linking procedure either from FireVibes Studio or from the EWT100 / IWT100.

3) Power-up the child device (either "first time use" or "recovery").

 Set the child device's Link / program switch OPPOSITE to "ON". 5) Wait the end of the "one-by-one" linking procedure.

6) Check on FireVibes Studio or from EWT100 / IWT100 for linking success. Consult their user manual.

INIM ELECTRONICS S.R.L. VIA DEI LAVORATORI 10, FRAZIONE CENTOBUCHI, 63076 MONTEPRANDONE, ITALY

www.inim.hiz

TECHNICAL SPECIFICATIONS

Specification	Value		
Communication range with EWT100, IWT100 or XWT100 network devices	200 m (in open space)		
Wireless frequency band(s) of operation	868-868.6 MHz, 868.7-869.2 MHz, 869.4-869.65 MHz, 869.7-870.0 MHz		
Number of wireless channels	66		
RF output power (max)	14 dBm (25 mW) e.r.p.		
Operating temperature range	-10 °C to 55 °C		
Maximum humidity (non condensing)	95% RH		
Certified IP rating (EN 54)	IP 30		
Design IP rating (not EN 54 certified)	IP 65		
Knockout cable entry specification	M16/20		
Wire gauge range compatible with the input port's terminal blocks	From 0.5 mm ² to 2.5 mm ²		
	Table 2		

BATTERY SPECIFICATIONS

Specification	Value	
Batteries type	CR123A (3 V, 1.25 Ah)	
Batteries lifespan *	10 years	
Low battery threshold value (nominal)	2.850 V	
* Detterios lifeenen denende hu environmentel conditione e	afault maniton actions and link quality.	able 3

* Batteries lifespan depends by environmental conditions, default monitor settings and link quality.

INPUT PORT SPECIFICATIONS

	End of Line impedance limits			its	Module status	Notes
	Min	Тур	Max	Units		
	6.5	10	14	kΩ	Normal	
Innut next	0	-	2.4	kΩ	Fault	Short circuit
Input port	2.5	5	6.4	kΩ	Alarm	Triggered by input line's device
	14.2	-	+∞	kΩ	Fault	Open circuit
R _{EOL}	8	10	12	kΩ		
R _{AL}	8	10	12	kΩ		

Table 4

WARNINGS AND LIMITATIONS

Our devices use high quality electronic components and plastic materials that are highly resistant to environmental deterioration. However, after 10 years of continuous operation, it is advisable to replace the devices in order to minimize the risk of reduced performance caused by external factors. Ensure that this device is only used with compatible control panels. Detection systems must be checked, serviced and maintained on a regular basis to confirm correct operation. Smoke sensors may respond differently to various kinds of smoke particles, thus application advice should be sought for special risks. Sensors cannot respond correctly if barriers exist between them and the fire location and may be affected by special environmental conditions. Refer to and follow national codes of practice and other internationally recognized fire engineering standards. Appropriate risk assessment should be carried out initially to determine correct design criteria and updated periodically.

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INIM ELECTRONICS S.R.L. VIA DEI LAVORATORI 10 FRAZIONE CENTOBUCHI 63076 MONTEPRANDONE (AP) - ITALY
EN 54-18:2005; EN 54-25:2008
WM110
Wireless Battery Powered Input Module

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for fire detection and fire alarm systems installed in buildings

Level or class of the performance per each DCMIINE0WM110-130 4

essential characteristic can be found in the Declaration of Performance

3

Use only in FireVibes fire detection and alarm systems.

WARRANTY

All devices are supplied with the benefit of a limited 5 years warranty relating to faulty materials or manufacturing defects, effective from the production date indicated on each product. This warranty is invalidated by mechanical or electrical damage caused in the field by incorrect handling or usage. Product must be returned via your authorized supplier for repair or replacement together with full information on any problem identified. Full details on our warranty and product's returns policy can be obtained upon request.

info@inim.biz