

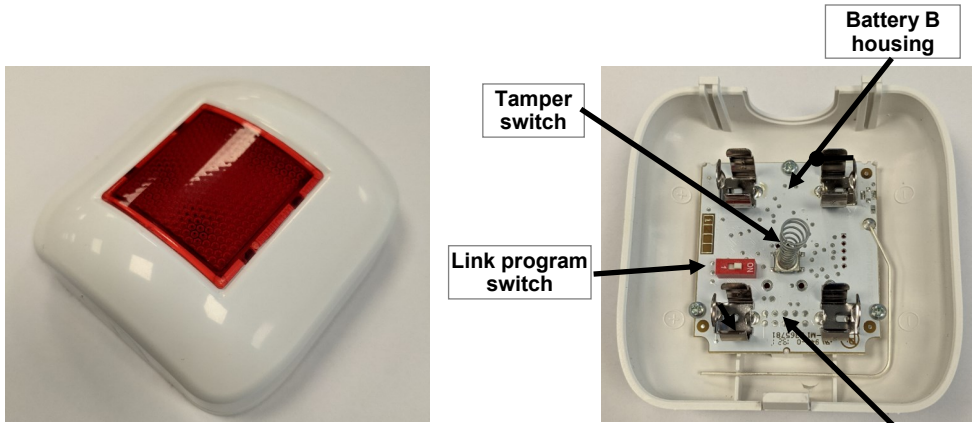
TW-RI-01

Wireless Remote indicator

GENERAL DESCRIPTION

The **TW-RI-01** remote indicator is an output device which, activated by the control panel, switches on its red light in the event of an emergency fire alarm. It is battery powered and doesn't need any system cabling installation.

The activation command is sent from the control panel to the indicator through the wire to wireless translator interface module and other possible wireless expander modules. It is intended to be used within the Argus Taurus range of products.



Picture 1

DEPLOYMENT PROCEDURE

- 1) Select a location for the remote indicator. See **LOCATION SELECTION**.
- 2) Unbox the remote indicator from its packaging.
- 3) Power up the remote indicator. See **FIRST POWER UP / POWERING UP - RECOVERY**.
- 4) Link the remote indicator to the system. See **LINKING - WAKE-UP - FIRST POWER UP/ LINKING - WAKE UP - RECOVERY**
- 5) Install the back cover. See **FIXING THE BACK COVER**.
- 6) Install the device onto the back cover. See **HOW TO REMOVE AND REINSTALL THE FRONT COVER**.
- 7) Test the remote indicator. See **TESTING**.



LOCATION SELECTION

Select a location for the remote indicator that conforms to your local applicable safety standards and that is in a good position for sending / receiving wireless signals to / from the father **TW-MTI-01**, **TW-MEC-01** or **TW-ME-01** network device.



It is advisable to use the TW-SK-01 survey kit to locate a good wireless installation location.

Mount the remote indicator 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 **TW-RI-01** must NOT be installed near electronic devices and computer equipment that can interfere with its wireless communication quality.

LED INDICATOR STATUS MESSAGES



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

The LED indicator communicates to the final user the status of the **TW-RI-01**.

Device status	LEDs indication
Power up (DIP on "ON")	Blinks red 4 times
First power up (DIP opposite "ON")	Blinks alternatively green / 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	Red LED steady on
Battery fault	LED off (can be programmed so as to blink amber every 5 seconds)
Tamper fault	LED off (can be programmed so as to blink amber every 5 seconds)
Replaced	Blinks green 4 times

Table 1

POWERING UP AND LINKING - PRELIMINARY NOTES

TW-RI-01 needs to be powered up with the supplied batteries.

Linking is the operation through which **TW-RI-01** is "wirelessly connected" to a **TW-MTI-01**, **TW-MEC-01** or **TW-ME-01** Taurus network device.

FIRST POWER UP

The device has features that facilitate the first installation. The first time you switch it on, without toggling the Link / program switch (set by default in the "opposite to on" position), the device enters wake-up mode. Every power on that is done before completing a link will be considered as a "first power on" (device automatically in wake-up mode with in Link / program "opposite to on" position).

LINKING - WAKE-UP - FIRST POWER UP

"Wake-up" linking consists in associating one or more child devices to the Taurus system altogether in a single operation. Wake-up is performed either through the **TauREX** software or the **TW-MTI-01** / **TW-MEC-01** keyboard-screen interface; it CANNOT be done through **TW-ME-01** devices.

- 1) Create the "virtual model" (be aware that the **Output Module** type has to be selected to link a remote indicator) of the **TW-RI-01** either on **TauREX** or on the **TW-MTI-01** / **TW-MEC-01**.
- 2) Insert the two supplied batteries into their device's lodgments (since it is a "first power up" do not toggle the Link / program switch)
- 3) Trigger the wake-up procedure either from **TauREX** or from the **TW-MTI-01** / **TW-MEC-01**.
- 4) Wait the end of the "wake-up" linking procedure.
- 5) Check on **TauREX** or from **TW-MTI-01** / **TW-MEC-01** for linking success. Consult their user manual.

POWERING UP - DEVICE LINKED TO THE SYSTEM

Use this procedure when a **TW-RI-01** is successfully linked to its Taurus system and you have to extract one or both batteries (e.g. batteries substitution).

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

Do not touch the Link / program switch.

If performing a batteries substitution, use two brand new batteries and substitute both of them.

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

POWERING UP - RECOVERY

Use this procedure when you fail to link successfully a **TW-RI-01** 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.

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

LINKING - WAKE-UP - RECOVERY

"Wake-up" linking consists in associating one or more child devices to the Taurus system altogether in a single operation. Wake-up is performed either through the **TauREX** software or the **TW-MTI-01** / **TW-MEC-01** keyboard-screen interface; it CANNOT be done through **TW-ME-01** devices.

- 1) Create the "virtual model" (be aware that the **Output Module** type has to be selected to link a remote indicator) of the **TW-RI-01** either on **TauREX** or on the **TW-MTI-01** / **TW-MEC-01**.
- 2) Power-up the remote indicator
- 3) Set the Link / program switch OPPOSITE to "ON".
- 4) Trigger the wake-up procedure either from **TauREX** or from the **TW-MTI-01** / **TW-MEC-01**.
- 5) Wait the end of the "wake-up" linking procedure.
- 6) Check on **TauREX** or from **TW-MTI-01** / **TW-MEC-01** for linking success. Consult their user manual.

LINKING - ONE-BY-ONE - RECOVERY

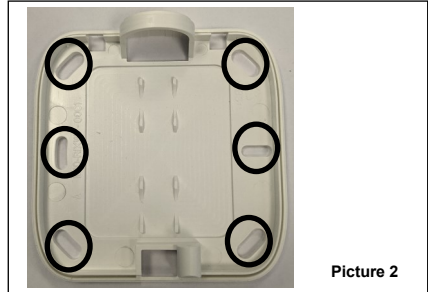
"One-by-one" linking consists in associating one child device at a time to the Taurus system.

This operation is performed either through the **TauREX** software or the **TW-MTI-01 / TW-MEC-01** keyboard-screen interface; it **CANNOT** be done through **TW-ME-01** devices.

- 1) Create the "virtual model" of the child device (be aware that the **Output Module** type has to be selected to link a remote indicator) either on **TauREX** or on the **TW-MTI-01 / TW-MEC-01**.
- 2) Trigger the linking procedure either from **TauREX** or from the **TW-MTI-01 / TW-MEC-01**.
- 3) Power-up the child device
- 4) 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 **TauREX** or from **TW-MTI-01 / TW-MEC-01** for linking success. Consult their user manual.

FIXING THE BACK COVER

Install and fix the device's rear cover in the selected position using the screws provided in the product's packaging. Fixing holes are indicated in picture 2.

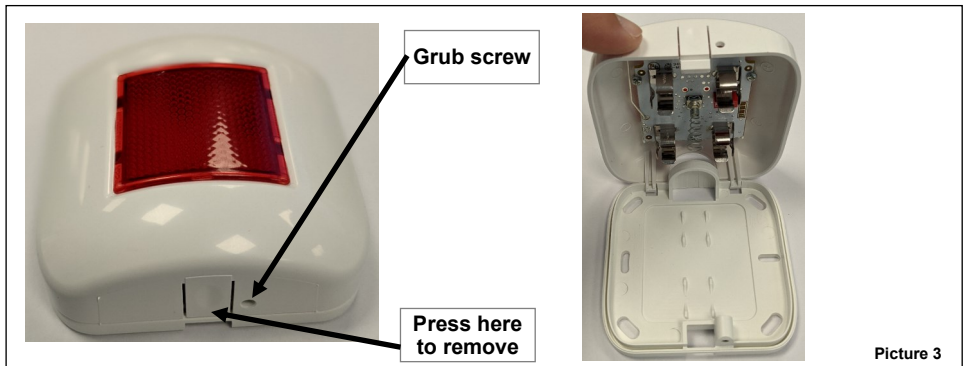


HOW TO REMOVE AND REINSTALL THE FRONT COVER

Remote indicator's installation requires the device's top cover to be removed from the its bottom (see picture 3):

- 1) Screw the grain inwards until it stops
- 2) Press the tab shown in the picture and gently and carefully remove the cover

Reinstalling the cover consists in performing the operation portrayed in picture 3.



TAMPER DETECTION FEATURE

The opening of the wireless remote indicator's case is signaled by the control panel as a tampering attempt; the device's PCB is equipped with a spring-tactile switch assembly: if the case is closed this spring is kept pressed, but when released (and this occurs if the case is opened) the remote indicator sends a tamper attempt message to the control panel which provides the signalization of such event.

The signalization of this event is automatically revoked a short time after the case is properly closed again.

RESET

To reset the wireless remote indicator from alarm it is necessary to reset the system from the control panel: alarm indication will deactivate.

TESTING

In order to test the functionality of the installed wireless indicator proceed as follows: activate an alarm condition on the control panel (by a call-point or sensor in the installed system): the control panel will lit the alarm indicator.

After each test the device must be reset from the control panel (see the RESET paragraph).

If the test fails check whether the batteries are charged, if mistakes were done previously or even if the system is activated. If the remote indicator's functionality is hopeless, send back the device to your distributor for repair or substitution.

All devices must be tested after installation and, successively, on a periodic basis.



Local safety standards may require you to test these devices on a regular basis.

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. This condition is locally signaled by the module's status indicator LED (check table 1). If such event occurs:

- 1) Remove the front cover.
- 2) Extract both batteries.
- 3) Insert both new batteries into their holders, oriented as per polarity marks.
See **POWERING UP - DEVICE LINKED TO THE SYSTEM**.
- 4) Reinstall the front cover.



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

Batteries must be brand new.

Do not touch the Link / program switch.

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

TECHNICAL SPECIFICATION *

Specification	Value
Communication range with TW-MTI-01 , TW-MEC-01 or TW-ME-01 network devices	200 m (in open space)
Wireless frequency band	868 MHz
Number of wireless channels	66
Radiated power	14 dBm (25 mW)
Operating temperature range	-10 °C to 55 °C
Maximum humidity (non condensing)	95% RH
Environmental application	Indoors
Dimensions	80 mm x 80 mm x 32 mm
Weight	60 grams (without batteries)

* See TDS-TWRI technical specification document for further technical data.

Table 2

BATTERY SPECIFICATION

Specification	Value
Battery type	CR123A (3 V, 1.25 Ah)
Battery lifespan *	5 years
Low battery threshold value (nominal)	2.850 V

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

Table 3

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.

Use only in Taurus 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.



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TW-RI-01

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