



Ferroguard Assure Alert Management Unit Installation Manual

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Foreword

The equipment described in this guide is subject to continuous development and improvement. Consequently, there may be minor variations in specifications, facilities or operation that are not covered in this guide.

Every effort has been made to ensure that the information provided in this guide is accurate at the time of going to print. If any errors or omissions are noticed, please notify Metrasens Ltd.

The equipment must be operated and maintained only by suitably trained and qualified personnel.

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Patents

Metrasens screening technology used in Ferroguard® Assure is protected by the following patents and patent applications: US 7113092, GB 2395276, ZA 2005/03561, JP 4477503, IL 168467, US 2013-0307533 A1, WO 2013/171498 A2, and Euro Pat App 2 850 462 with other US and international patents pending.

About this guide

This guide describes the operation of the Alert Management Unit. It provides detailed information on the following tasks:

- Installing the system.
- Operating the system.

It is intended for use by all technical personnel and suitably trained operators who install and operate the system.

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Part No. 2017.

Original language

English is the original language of this guide. If you are reading a translated version of this guide and have a question about the intended meaning of any translated text, always consult the original English-language guide. If you do not have a copy, please request a copy directly from Metrasens.

Important Information

DISCLAIMER

The Alert Management Unit prevents the audible alert of the Ferroguard Assure system from sounding for a fixed amount of time or until the operation is cancelled. This occurs irrespectively of whether it is activated deliberately or accidentally. The unit does not change or impair the visual alert provided to the user. It is the responsibility of the owner of the system to ensure its correct and safe use. Metrasens accepts no responsibility for the consequences of ferromagnetic objects carried through the Ferroguard Assure system.

INTENDED USE STATEMENT

The Alert Management Unit is intended to enable qualified MRI staff only to suppress the audible alert of the Ferroguard Assure system. Its sole purpose is to allow MRI docking tables to pass the Ferroguard Assure system without any audible alert. The unit does not inhibit in any way the Ferroguard Assure primary visual alert. The activation of the Alert Management Unit by non-qualified people or for purposes other than MRI docking tables is outside of the intended use.

MANUFACTURERS RECOMMENDATIONS

- Metrasens recommends only using the Alert Management Unit when absolutely necessary, and on the shortest time setting that is conducive to your workflow.
- The Alert Management Unit should only be enabled when authorized staff are in attendance, e.g. during shift hours, and at all other times the unit should be turned off with the key removed. "Enabled" means the key switch is in any other position than the O (off) position.
- Only MRI staff with full safety training should be authorized to activate the Alert Management Unit. "Activate" means to press the Alert Suppress button to cause a temporary suspension of the audible alert.
- The senior MRI staff member who is in attendance is the custodian of the key.
- Never leave the key in the key-switch. Always remove it after adjusting the setting.

SAFETY SYMBOLS



Refer to User Manual.

Installation

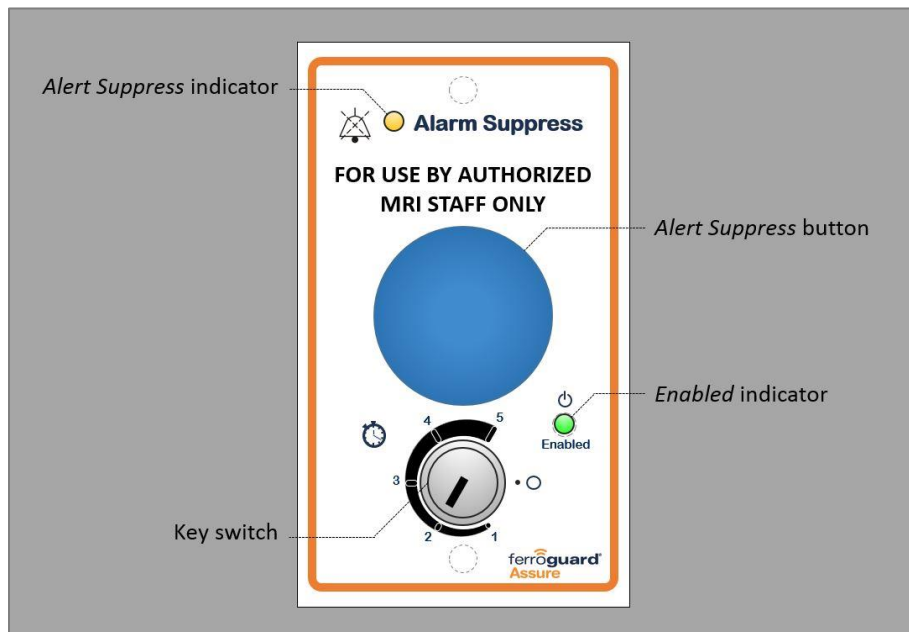


Figure 1 – Alert Management Unit components.

LOCATION

The Alert Management Unit should be located on the handle side of the doorway, within comfortable reach of the handle. The Alert Suppress button should be at a height agreed by the users, typically 40" (1016 mm) to 46" (1168 mm) from the floor.

Ensure that the Alert Suppress button and key switch can be accessed easily and that the Enabled and Alert Suppress indicators are visible. (See Figure 1)

Once the location has been agreed upon, hold the Alert Management Unit against the wall and mark the top and bottom of the body.

PREPARATION

Remove the front face of the Alert Management Unit. Keep the screws safe as they will be reused later.

CABLE MANAGEMENT

Route the Alert Suppress to AHUB Cable from Hub, through trunking to the location of the Alert Management Unit. Do not plug it in to the Hub at this stage.

MOUNTING THE BODY

Hold the Alert Management Unit body to the previously marked location on the wall and mark the two fixing holes.

Using an appropriately sized drill bit, drill holes in the two marked locations and insert the wall plugs provided.

Hold the Alert Management Unit body up to the location and insert the mounting screws provided through the fixing holes and into the wall plugs - as shown in **Error! Reference source not found.**

Remove one of the knock outs in the side of the Alert Management Unit and feed the Alert Suppress to AHUB Cable through the hole. See **Error! Reference source not found.**



Figure 2 - Alert Management Unit body.

CONNECTING THE ELECTRONICS



The AHUB must be switched off before the Alert Management Unit is connected to it.

Connect the Alert Suppress to AHUB cable to the connector on the PCA on the front plate of the Alert Management Unit as shown in 3 and 4 below.

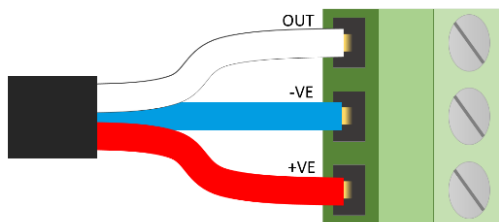


Figure 3 - Alert Management Unit wiring diagram.



Figure 4 - Alert Management Unit wiring.

Attach the Alert Suppress to AHUB Cable to the top of the exposed pillar using the P-Clip, Nut and Washer provided, as shown in **Error! Reference source not found.**



Figure 5 - Cable management.



Figure 6 - Connection to AHUB.

Turn off the AHUB by the mains switch and connect the other end of the Alert Suppress to AHUB cable to the Aux 1 socket in the Hub. See **Error! Reference source not found.**

You can now turn the AHUB back on.

CLOSING THE ALERT MANAGEMENT UNIT

Hold the front plate against the body and attached using the screws removed earlier. Be careful not to trap any wires.

Insert the white blanking plugs provided to cover the screw heads.

Set up

TESTING

Conduct the following test and confirm that all results are as listed.

Test number	Test	Result
1	Set the key switch to position 0	Both indicators are off
2	Set the key switch to position 2	The enabled indicator is on (green)
3	Press the alert suppress button	Alert suppress indicator is on (yellow)
4	Within 10 seconds of pressing the Alert Suppress Button, cause a red beacon and break the beams in an inward direction	No audible alert
5	While Alert Suppress indicator is off, cause a red beacon and break the beams in an inward direction	Audible alert is sounded

If any of the tests incur unexpected results, contact Metrasens technical enquiries immediately

FINISHING UP

To finish up ensure that the key switch is set to position O, and leave the keys with the authorized member of staff.

