

RELEASE NOTES

VibroSight® software version 2.9.1



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REVISION RECORD SHEET

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PREFACE

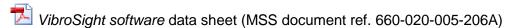
About these release notes

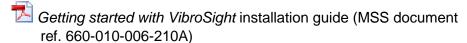
These release notes provide important information about the VibroSight® software from Meggitt Sensing Systems. They are applicable to all installations using the versions of VibroSight software described by this document, namely:

• VibroSight 2.9.1.

The release notes contain information about changes from previous versions, such as new features and improvements, solved problems, bug fixes, and compatibility (hardware and software).

For more general information on the actual software, or the entire condition monitoring system (CMS), please refer to the following Meggitt Sensing Systems (MSS) documentation:







VibroSight application notes and technical notes.

Users who are familiar with previous versions of VibroSight may also find it useful to refer to the respective release notes included in their installation.

Structure of the release notes

This version of the VibroSight release notes presents the information in the following order: general items first, then in terms of the software modules that constitute VibroSight, such as Configurator, Server, Vision and so on.

You should read those sections that are most relevant to you and then keep the document for future reference.



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1. Licensing

In general, the licence key required to enable purchased product options remains unchanged for upgrades between patch level releases (for example, from version 2.9.0 to version 2.9.1).

However, a new licence key is required for upgrades between minor version releases (for example, from version 2.8.x to version 2.9.0).

To obtain a new VibroSight licence key file or for further information on licence keys, contact Meggitt Sensing Systems customer support (see section 6).

2. New features

General

2.1. Licensing

The user licence check has been removed from the VibroSight Configurator and VibroSight System Manager programs. Therefore, these software modules no longer require a Meggitt Sensing Systems (Meggitt SA) software licence agreement in order to run.

2.2. Unit preferences

The unit preferences window now allows unit preference sets to be more easily managed. For example, unit preference sets can now be copied, renamed, imported, exported, and set as active. This allows users to quickly customize unit preferences to meet the needs of their application and share preferred unit preferences between VibroSight installations.

To access the Unit Preferences window, click **Tools > Unit Preferences** on the menu bar in a VibroSight software module.

VibroSight Configurator

2.3. Increased support for dual-channel processing

The number of dual-channel processing blocks that can now be configured for a XMC16, XMV16 or XMVS16 card has been increased to:

• Four relative shaft processing blocks and eight absolute shaft processing blocks.

Previously, the limit was ≤ 10 for all dual-channel processing blocks on a card.





VibroSight System Manager

2.4. Changing the firmware

The Change Firmware dialog box now opens the firmware folder corresponding to the VM600 card or VibroSmart DMS device selected.

To access the Change Firmware dialog box, click **Change Firmware** in the Maintenance group in the Actions window.

VibroSight support for VibroSmart DMS devices

There are many changes to VibroSight for improved support of VibroSmart DMS devices.

2.4.1. Improved handling of software and firmware incompatibilities by VibroSight

The VibroSight software uses on-screen messages to inform the user of any compatibility issues that result from updates and upgrades to the VibroSight software.

There are two main sources of compatibility after a VibroSight software update or upgrade:

- The version of the firmware running on a VibroSmart DMS module is incompatible (too old or too new) with the VibroSight software.
- The configuration running on a VibroSmart DMS module is incompatible with the VibroSight software.

In both of these cases, the VibroSight software concerned will display an on-screen message that describes the compatibility issue and provides information on how to resolve the problem.

2.4.2. Display of VibroSmart DMS device information using VibroSight System Manager

VibroSmart DMS device information provides detailed data about the module, including global information, time synchronization, network, diagnostic, module PNR and base PNR. This device information can be viewed at any time using VibroSight System Manager.

To view the VibroSmart DMS device information, select the VibroSmart DMS module from the Devices tree-view of the System Explorer and the main window will display the detailed data about the module.

2.4.3. Display of status information using VibroSight Scope

VibroSight Scope now displays the status of the DSI control inputs, logical functions and relay outputs of a VibroSmart DMS device.

The status information can be viewed in the DSI Status area of the Status and Commands pane in VibroSight Scope.



2.4.4. Control of the DSI control inputs using VibroSight Scope

VibroSight Scope can now remotely control the local DSI control inputs of a VibroSmart DMS device.

Individual command buttons for trip multiply (enable and disable), danger bypass (enable and disable) and alarm reset (reset) are available in the **DSI Commands** area of the Status and Commands pane in VibroSight Scope.

2.4.5. Selection of the DSI master using VibroSight Configurator

Any VibroSmart DMS device in a measurement block can be selected as the DSI master for the measurement block, so that the DSI master's DSI control inputs are used as common DSI control inputs for all of the devices in the measurement block.

When enabled, the VibroSmart DMS system bus (Ethernet) is used to communicate the DSI control input signals from the DSI master to the other devices in the measurement block. So, this feature can be used to reduce external wiring requirements and potential interconnection failures.

To select a VibroSmart DMS device as the DSI master for a measurement block, select the measurement block in VibroSight Configurator, then select the **DSI Master** check box in the main window and use the drop-down list box to select the name of the device to use as the master.

2.4.6. Acquisition and display of VibroSmart DMS module events using VibroSight Event Viewer

VibroSight Event Viewer can now be used to display the events generated by a VibroSmart DMS, such as time synchronization.

2.4.7. Extension of position processing

Position processing has been extended to include dynamic input channels.

Previously, position processing blocks could only be configured for auxiliary input channels configured as DC inputs.

2.4.8. Phase offset added to the Profibus slot data for VSV010 modules

Phase offset has been added as a configuration parameter for data added to a VSV010's Profibus slot. The purpose of this parameter is to allow phase values to be automatically shifted when exporting them via this fieldbus.

The phase offset parameter is available in the memory map for every data item in a Profibus slot, where the end user can enter the phase offset data, if required.



2.4.9. Logical function outputs available as Profibus slot data for VSV010 modules

The output of the logical functions (basic and advanced) of the VibroSmart DMS modules used in a measurement block can now be used as data items in a Profibus slot.

To add a logical function output to a Profibus slot, in the parameters window for the slot, click **Add > Logical Function** in the Memory Map group box and select the logical function(s) from the Add Logical Function dialog box that appears.

2.4.10. Improved consistency checking

The Consistency Check in VibroSight Configurator has been improved in order to support VibroSmart DMS modules. For example, there is a check to ensure that all of the analog outputs for a module are configured to operate in the same mode (AC or DC).

This affects the VSV300 only.

2.4.11. Restricted low-pass filter cut-off frequencies for VSV300 modules

The cut-off frequency of the low-pass filter (**Low Pass Filter Frequency** on the **Secondary Path**) must be selected from a drop-down list box as one of the following pre-defined values: 156.25 Hz, 312.5 Hz, 625 Hz, 1.25 kHz, 2.5 kHz, 5 kHz, 10 kHz or 20 kHz.

Previously, this low-pass filter cut-off frequency could be set to any value using a free-entry text box.

This affects VibroSmart DMS modules with the following processing blocks:

- Asynchronous absolute bearing vibration
- · Broad-band pulsation
- · Relative shaft vibration.

See also section 5.4.

2.4.12. Support for the VSV310 module

Support for the VSV310 vibration monitoring module has been added to the VibroSight software. (As a distinct and separate module from the VSV300.)



3. Solved problems and bug fixes



3.1. Deleting a machine

 In certain circumstances, deleting a Machine Unit from the Machinery View of a configuration caused VibroSight Configurator to stop responding. This bug has now been eliminated.

3.2. Input channels configured as temperature

• For input channels where temperature was selected as the physical quantity, the channel was not being configured correctly. This bug has now been eliminated.

3.3. Step change logging rules

• For input channels where temperature was selected as the physical quantity, step change logging rules were not working correctly. This bug has now been eliminated.

VibroSight Event Viewer

3.4. Stabilisation and bug fixes

General stability improvements and multiple bug fixes.

3.5. Invalid event count

• The count of events in VibroSight Event Viewer always returned ~1500 events, even if the correct number was larger. This bug has now been eliminated.

VibroSight System Manager

3.6. Changing the firmware

 The current version of the firmware displayed for a VibroSmart DMS device after a firmware upgrade was not correct. This bug has now been eliminated.



3.7. IP address configuration

 The IP address of a VM600 card or VibroSmart DMS device was not configured correctly for cards and devices in different subnets. This bug has now been eliminated.



4. Compatibility

4.1. VibroSight software

VibroSight 2.9.1 is a minor version release in the 2.x.x series and replaces VibroSight 2.9.0.

Compatibility with existing databases is achieved using the database **Update** tool (from VibroSight System Manager's **Database** tools) which supports the continued used of configurations and data from previous versions (see section 5.1.1).

NOTE:

Refer also to the latest version of the VibroSight software data sheet or the Getting started with VibroSight installation guide for further information on VibroSight's compatibility and prerequisites.

4.1.1. Microsoft Windows operating systems

VibroSight 2.9.1 is compatible with the 32-bit versions and the 64-bit versions of Microsoft ® Windows ® operating systems.

4.1.2. Apple Bonjour

VibroSight uses Apple ® Bonjour to discover and locate network-enabled devices from Meggitt Sensing Systems, such as VM600 cards and VibroSmart DMS modules and devices.

VibroSight 2.9.1 remains compatible with the previously deployed version of Bonjour, namely Bonjour version 3.0.

NOTE:

The 64-bit version of Bonjour must be installed on 64-bit Windows operating systems.

Only Apple Bonjour for Windows version 1.0.106 should be used with VibroSight 2.7.x or earlier.

Only Apple Bonjour for Windows version 3.0 or later should be used with VibroSight 2.8.x or later.

4.1.3. Sybase SQL Anywhere software

VibroSight uses the Sybase ® SQL Anywhere database software in its standard configuration. VibroSight 2.9.1 remains compatible with the previously deployed version of SQL Anywhere, namely SQL Anywhere version 11.0.1.

For VibroSight systems that have been installed and running with previous versions, upgrading or reinstallation of the database software is not mandatory when upgrading to VibroSight 2.9.1. However, if you are still using SQL Anywhere 11.0.0, Meggitt Sensing Systems recommends upgrading to version 11.0.1 (see section 5.2).



4.2. VibroSight hardware

4.2.1. VM600 card firmware

There is a firmware (embedded software) update for the VibroSight VM600 cards (XMC16, XMV16 and XMVS16) corresponding to VibroSight 2.9.1.

The latest firmware for the CPUR card is:

Applications: applications-640-012-001-003.tgz

• Base System: base-system-640-011-001-003.tgz.

The latest firmware for the XMC16, XMV16 and XMVS16 cards is:

Applications: applications-640-010-001-004.tgz

• Base System: base-system-640-003-001-005.tgz.

Therefore, for earlier versions of the XMC16, XMV16 and XMVS16 cards, a firmware upgrade *is required* (see section 5.3.1).

4.2.2. VibroSmart DMS device firmware

There is a firmware (embedded software) update for the VibroSmart DMS modules and devices corresponding to VibroSight 2.9.1.

The latest firmware for the VSI010 module is:

• 642-002-001-001.xmsifw.

The latest firmware for the VSN010 switch is:

• 642-004-001-001.redboxfw.

The latest firmware for the VSV300 and VSV310 modules is:

• 642-001-001-001.xtranfw.

Therefore, for earlier versions of the VibroSmart DMS modules and devices, a firmware upgrade *is recommended* (see section 5.3.2).



5. Upgrade procedure

This section describes the procedure for upgrading a VibroSight system from a previous version. Perform the steps in the given sequence in order to complete a system upgrade.

NOTE:

It is strongly recommended to verify the version of firmware running in the related hardware (VM600 cards and VibroSmart DMS modules and devices) before starting a VibroSight system upgrade, in order to establish if a firmware update is also required (see section 5.3.3).

5.1. Upgrading the VibroSight software

- 1. If it is not necessary for the VibroSight-based system to remain operational during the upgrade procedure, back up any important (required) VibroSight databases in the following way:
 - Exit all VibroSight software modules (clients and servers) no VibroSight applications (such as Vision, Configurator or Server) should be running.
 - Copy the three files (*.db, *.config and *.log) from the directory where your
 database files are located to another location, for example, to a specific backup
 directory.

NOTE: The default data (data path) directory is C:\VibroSight Data

Or if it is necessary for the VibroSight-based system to remain operational for as long as possible during the upgrade procedure, back up any important (required) VibroSight databases in the following way:

- Exit all VibroSight software modules (clients) no VibroSight applications (such as Vision or Configurator) should be running.
- Start VibroSight System Manager and use the database Backup tool from VibroSight System Manager's Database tools, and follow the instructions presented by the Database Backup Wizard.

NOTE: It is necessary to be logged in to System Manager as 'Admin' in order to have the user rights to access the database tools:

Select your VibroSight Host (computer) in the System Explorer tree structure and click Login (from VibroSight System Manager's Access Rights tools).

NOTE: Refer also to the Backing up a database topic in the VibroSight help.



- 2. Make backup copies of any important (required) VibroSight Vision projects in the following way:
 - Create an archive file (for example, *.zip) containing all of the files (*.xml and
 *. xmsproj) in the directory where your project files are located.

NOTE: The default project directory is:

C:\Documents and settings\username\My Documents
\VibroSight\Projects

- 3. Ensure that no VibroSight software modules are running.
- 4. Remove the currently installed version of the VibroSight software (for example, VibroSight Standard Edition) using Windows Add or Remove Programs, in one of the following ways:
 - Click Start > Settings > Control Panel and then double-click Add or Remove Programs.
 - Or click Start, click Control Panel and then double-click Add or Remove Programs.
- 5. Install the latest version of the VibroSight software by inserting the VibroSight CD into the CD/DVD drive of the computer and follow the instructions presented by the VibroSight installation wizard.

NOTE:

Refer to the Getting started with VibroSight installation guide for information on installing the VibroSight software.

- 6. Restart VibroSight Server and ensure that the required communications are enabled. For example, enable the card, module and device drivers according to the hardware in the system:
 - For example, click Data > Acquisition > XMC16/XMV16 Card Driver or Data > Acquisition > VibroSmart Module Driver.
- 7. Restart VibroSight Vision and ensure that live data is being received from the hardware and displayed in Vision.
- 8. The VibroSight system is now up and running.

5.1.1. Updating the internal structure of a VibroSight database

When VibroSight Server is started, it checks the status of the database and will automatically inform the user if any internal structures of the database need to be updated before proceeding.

1. Update a VibroSight database in the following way:



Start VibroSight System Manager and use the database Update tool from VibroSight System Manager's Database tools, and follow the instructions presented by the Database Update Wizard.

NOTE:

It is necessary to be logged in to System Manager as 'Admin' in order to have the user rights to access the database tools:

Select your VibroSight Host (computer) in the System Explorer tree structure and click Login (from VibroSight System Manager's Access Rights tools).

NOTE:

Refer also to the *Updating a database* topic in the **B** *VibroSight help.*

5.2. Upgrading the SQL Anywhere software

VibroSight software is compatible (and extensively tested) with SQL Anywhere versions 11.0.0 and 11.0.1.

However, there are two known issues (an exception when loading historical data and the database update tool not working correctly) which might occur in isolated (rare) circumstances. The correction for these issues is available in SQL Anywhere 11.0.1.2044. Therefore, it is recommended to upgrade all VibroSight systems to this version of SQL Anywhere.

Determine the version of the SQL Anywhere database engine installed on a computer in the following way:

1. From the Start menu, click **Start > All Programs > SQL Anywhere 11 > Sybase Central**.

The Sybase Central window appears. Sybase Central is a GUI-based management tool for Sybase products.

2. Click **Help > About Sybase Central**.

The About Sybase Central windows appears, displaying the version information for SQL Anywhere (and any other installed Sybase products).

NOTE: Refer also to the *Determining the version of SQL Anywhere installed on a computer* topic in the *VibroSight help.*



Upgrade the SQL Anywhere 11 software by first removing the existing version of SQL Anywhere and then installing the new version, as follows:

WARNING:

Do not use the SQL Anywhere 11.0.1 setup to upgrade directly to software version 11.0.1 from software version 11.0.0. Instead, it is recommended to upgrade the Sybase database software as follows:

- 1. Remove SQL Anywhere 11.0.0, using the Windows Add or Remove Programs tool.
- 2. Install SQL Anywhere 11.0.1, using the Sybase SQL Anywhere 11.0.1

Refer also to the Getting started with VibroSight installation guide for information on installing the Sybase software.

1. Exit all VibroSight software modules (clients and servers) – no VibroSight applications (such as Vision, Configurator or Server) should be running – as this also stops the SQL Anywhere database engine.

The planting icon that appears in the notification area (at the far right of the task bar) to indicate that a Sybase database engine is running should no longer be shown.

- 2. Remove the currently installed version of Sybase SQL Anywhere using Windows Add or Remove Programs, in one of the following ways:
 - Click Start > Settings > Control Panel, then double-click Add or Remove Programs
 - Or click Start, click Control Panel and then double-click Add or Remove Programs.

And remove 5 SQL Anywhere 11.

- 3. Restart the computer.
- 4.Install Sybase SQL Anywhere VibroSight 11.0.1.2044 by inserting the Sybase CD into the CD drive of the computer and follow the instructions presented by the SQL Anywhere 11 installation wizard.
- 5. Restart the computer.

Without this final computer restart, VibroSight Server may not be able to start the SQL Anywhere database engine.



5.3. Updating the VibroSight hardware

Appropriate files and tools are included in the installation package to allow VM600 cards (CPUR, XMC16, XMV16 and XMVS16) and VibroSmart DMS devices (VSI010, VSN010, VSV300 and VSV310) to be updated to the latest standard, in order to take advantage of improvements to the VibroSight software.

5.3.1. VM600 card firmware

The latest VM600 card firmware files are copied to a directory on your computer as part of the VibroSight installation process.

NOTE: The default firmware directory for VM600 cards is:

C:\Program Files\Meggitt\VibroSight 2\Firmware\VM600

The firmware files for a VM600 card can be found in the appropriate subfolder and identified by their .tgz file name extension. For example, the XMV16 subfolder contains the applications and base system firmware for use by XMV16 cards. Any additional firmware updates received from Meggitt Sensing Systems should also be stored in these directories.

Table 1 shows the compatibility between VibroSight software and VM600 card hardware (that is, XMC16, XMV16 and XMVS16 card pair firmware).



Table 1: VibroSight 2.9.1 and VM600 card firmware compatibility

	VM600 card firmware				
VibroSight client-server software	applications- 640-004-001- 003.tgz	applications- 640-010-001- 001.tgz	applications- 640-010-001- 002.tgz	applications- 640-010-001- 003.tgz	applications- 640-010-001- 004.tgz
(VibroSight version CD part number)	base-system- 640-003-001- 001.tgz	base-system- 640-003-001- 002.tgz	base-system- 640-003-001- 003.tgz	base-system- 640-003-001- 004.tgz	base-system- 640-003-001- 005.tgz
1.0.0 609-004-000-001	1	Х	Х	Х	х
2.0.0 609-004-000-003	х	√	х	х	х
2.0.5 609-004-000-004	х	√	×	×	х
2.0.6 609-004-000-005	х	✓	×	×	х
2.5.0 609-004-000-006	Х	√	×	×	х
2.7.5 609-004-000-008	Х	√	√	×	х
2.8.0 609-004-000-007	Х	✓	√	×	Х
2.9.0 609-004-000-010	Х	×	Х	✓	Х
2.9.1 609-004-000-011	×	×	×	×	✓



5.3.2. VibroSmart DMS device firmware

The latest VibroSmart DMS device firmware files are copied to a directory on your computer as part of the VibroSight installation process.

NOTE: The default firmware directory for VibroSmart DMS devices is:

C:\Program Files\Meggitt\VibroSight 2\Firmware\VibroSmart

The firmware files for a VibroSmart DMS device can be found in the appropriate subfolder and identified by their .*fw file name extension. For example, the VSV-300 subfolder contains the firmware for use by VSV300 modules. Any additional firmware updates received from Meggitt Sensing Systems should also be stored in these directories.

Table 2 shows the compatibility between VibroSight software and VibroSmart DMS device hardware (that is, VSI010, VSN010, VSV300 and VSV310 device firmware).

	VibroSmart DMS device firmware				
VibroSight client-server software (VibroSight version CD part number)	VSI010	VSN010	VSV300	VSV310	
2.8.0 609-004-000-007	642-002-001- 001.xmsifw	642-004-001- 001.redboxfw	642-001-001- 001.xtranfw		
2.9.1 609-004-000-011	642-002-001- 002.xmsifw	642-004-001- 002.redboxfw	642-001-001- 002.xtranfw	642-001-001- 002.xtranfw	

Table 2: VibroSight 2.9.1 and VibroSmart DMS device firmware compatibility

5.3.3. Updating the firmware using VibroSight System Manager

When performing VibroSight software upgrades, it is strongly recommended to systematically upgrade the firmware of VM600 cards and VibroSmart DMS devices to the latest compatible version.

Failure to perform a necessary VibroSight card firmware update may lead to incoherent system behaviour and affect the proper functioning of data acquisition in a system. It is only in systems where the firmware running on the VM600 cards and VibroSmart DMS devices already corresponds to the latest available version that no firmware update is required. Therefore, it is strongly recommended to verify the version of firmware running on the hardware before starting a VibroSight system upgrade, in order to establish if a firmware update is also required.



WARNING:

Changing the firmware of the VibroSight hardware is a special administrative task that can – if performed unintentionally – affect the proper functioning of data acquisition in a system.

It is therefore strongly recommended to change the firmware of the VibroSight hardware only when it is necessary. For example, when the devices must be updated to be compatible with a VibroSight software upgrade.

Update the firmware on a VibroSight device using the Change Firmware tool (from VibroSight System Manager's Maintenance tools):

- 1. Ensure that the computer running the VibroSight software is on the same network as the hardware (VM600 card or VibroSmart DMS module or device) to be updated.
- Start VibroSight System Manager and navigate to the Devices tree structure in the System Explorer window.

The Devices tree lists all of the VibroSight compatible hardware that VibroSight can see on the network. If there are no VM600 cards or VibroSmart DMS devices in the tree structure or some cards are missing, please verify your network connections.

3. Select the card or device that requires its firmware to be changed.

The Actions tool window updates to show the available tools.

4. Click Change Firmware in the Maintenance tools group of the Actions window.

The Change Firmware dialog box appears.

5. Click the **Add** button and select the new firmware files for the card or new firmware file for the device.

NOTE:

The Change Firmware dialog box automatically opens the firmware folder corresponding to the VM600 card or VibroSmart DMS device selected.

. \mbox{tgz} files are for VM600 cards and . * \mbox{fw} files are for VibroSmart DMS devices.

6. Click the **Finish** button to start the firmware upgrade process.

For VM600 cards and VibroSmart DMS devices, the firmware upgrade process can take up to 5 minutes, during which:

- The IP address beside the device's serial number in the Devices tree structure can disappear.
- The LEDs on the front panel of the device can change to reflect the status of the upgrade.



7. Repeat steps 3 to 6 for each device that requires a firmware update.

NOTE:

Although the firmware for each VibroSight device must be changed individually using the Change Firmware tool, as each device updates its firmware independently of the VibroSight software (once the process has started), firmware updates can be performed on several devices in parallel.

8. After the firmware upgrade, verify that the VibroSight system is acquiring data from the cards.

NOTE:

Refer also to the Changing the firmware topics in the B VibroSight help.

The Change Firmware tool can be used to load a VibroSight device with any version of firmware. It is therefore possible to change a device's firmware to any previously available version, as well as the latest update.

This feature can be useful in certain situations, for example, swapping spare VibroSight hardware between different VM600 racks or VibroSmart DMSs, where systems are operating with different versions of VibroSight.

5.4. Final check

After upgrading the VibroSight software, it is recommended to open the configuration and run a consistency check in order to ensure that the configuration has not been inadvertently modified by any changes to the VibroSight software, internal database structure and firmware for the hardware (VM600 cards and VibroSmart DMS modules).



6. Customer support

6.1. Contacting us

Meggitt Sensing Systems' worldwide customer support network offers a range of support including Technical support and Sales and repairs support. For customer support, please contact your local Meggitt Sensing Systems representative. Alternatively, contact our main office:

Customer support
Meggitt SA
Route de Moncor 4
PO Box 1616
CH-1701 Fribourg
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Telephone: +41 (0) 26 407 11 11 Email: energysupport@ch.meggitt.com Web: www.meggittsensingsystems.com

6.2. Technical support

Meggitt Sensing Systems' technical support team provide both pre-sales and post-sales technical support, including:

- General advice
- Technical advice
- Troubleshooting
- · Site visits.

6.3. Sales and repairs support

Meggitt Sensing Systems' sales team provide both pre-sales and post-sales support, including advice on:

- New products
- Spare parts
- Repairs.