

MAXPRO[®] NVR 5.6

Software Release Notes

Product Description

This document covers new features and enhancements added to **MAXPRO[®] NVR 5.6 Build 572** software and these are applicable to all MAXPRO[®] NVR variants.

If you have questions concerning this document, please contact Honeywell Technical Support. See the back cover for contact information.

In this Release Notes...

Mini TOC.

Section	Page
What's New in MAXPRO[®] NVR / NVR Hybrid 5.6	1-1
Installation Notes	1-1
Supported Operating System	1-4
What's New in MAXPRO[®] NVR / NVR Hybrid 5.5	1-4
What's New in MAXPRO[®] NVR / NVR Hybrid 5.0 SP1	1-6
What's New in MAXPRO[®] NVR / NVR Hybrid 5.0 T-Patch	1-11
MAXPRO[®] NVR Compatibility - Supported IP Cameras and Encoders	1-14
Interoperability Matrix – Honeywell Video and Access Control Systems	1-14

What's New in MAXPRO[®] NVR / NVR Hybrid 5.6

Installation Notes

Upgrade Support

- Upgrade to MAXPRO[®] NVR 5.6 Build 572 is supported from the following builds only.
 - MAXPRO[®] NVR v5.0 Build 509 Rev D
 - MAXPRO[®] NVR 5.0_T patch Build 522
 - MAXPRO[®] NVR 5.0 SP1 Build 532

- MAXPRO® NVR 5.5 Build 558

Note: Uninstallation and reinstallation is not supported for any of the MAXPRO® patches. User may notice performance issues.

Support for Equip series V2 Cameras

The following is the list of Equip Series V2 camera integration is supported in MAX-PRO® VMS:

Note: Recommended to use NVR version 5.6 and above to connect to the below camera firmware.

S.No	Camera Model	Type
1	H2W2GR1	WDR cameras
2	H3W2GR1V	
3	H3W4GR1V	
4	H4W2GR1V	
5	H4W4GR1V	
6	HBW2GR1V	
7	HBW2GR3V	
8	HBW4GR1V	
9	HCW2GV	
10	H4L2GR1V	Ultra Low Light
11	HCL2GV	
12	HBL2GR1V	

The below table details the Firmware version compatible with the NVR 5.6 Build 572:

Camera Model	Firmware	Web Version	Onvif Version	ISOM Version	Xtralis Intrusion Trace	Xtralis loitering Trace	Intrusion Detection	Loitering Detection	Trigger Line Detection
Equip S Series V2 Firmware version					VA Packages				
Ultra Low Light	1.00000000.18, 2019-04-23 Or above.	3.2.1.72 2805	16.1.2	1.3.1, 2019-04-21	1.01.19	1.01.19	1.0.8, 2019-01-15	1.0.8, 2019-01-15	1.0.8 2019-01-15
WDR cameras	1.00000000.18, 2019-04-09 Or above.	3.2.1.71 6054	16.1.2	1.3.1, 2019-04-04					

The above Equip S Series V2 Firmware version supports the following features:

- New VA events added with Annotation support
 - Xtralis IntrusionTrace™
 - Xtralis LoiterTrace™
 - Intrusion Detection

- Loitering Detection
- Trigger Line Detection

Note: Annotation feature is supported only with Xtralis XO package.

- Profile -G Edge Sync recording
- Multicast

Support for HRHQ104 DVR

NVR 5.6 supports HRHQ104/108/116 DVR (V1.00.00HW001.1.190422) as 4/8/16ch encoders.

Support for smooth Rendering at VMS

NVR 5.6 Build 572 installation is mandatory for smooth reverse playback in MAX-PRO® VMS.

Recommendations

- To improve the Rendering performance it is recommended to use system with 16GB RAM.

Other Changes or Enhancements

- Improvements in handling Drive corruption and partition corruption scenarios for recordings: In one of the sites with HUS IP SAN, it is noticed that the drive corruption is impacting the process of switching recordings to alternate drives. It is now enhanced for smooth switching and to handle drive corruption/error.
- Improvements to reduce resource utilization (CPU) for Integrity and Archival services: In some scenarios, archival and integrity services are consuming a lot of disk availability for recordings. This is now corrected to optimize the disk read/write operation during recordings and playback operations.

Supported Operating System

Version 5.6 Build 572 is approved for the following operating systems:

Operating System	Service Pack	Recommended Installation Type	Limitations
Windows® 7 Professional 64 bit	1	Client Only	None
Windows® 7 Embedded Standard 64 bit	1	Client Only	None
Windows® 10 Professional 64 bit	None	Server/Client	None
Windows® Server 2012 R2 Standard	None	Server Only	None
Windows® Server 2016 R2 Standard	None	Server Only	None

Note: 32 bit Operating Systems may have limitations and performance issues on most of the features of R560. Recommended to use 64 bit OS.

Please refer to the Microsoft® Windows Patches Tested with MAXPRO®NVR document for further details on Windows updates that have been tested with the current software version shipping with MAXPRO® NVR and NVR Hybrid.

What's New in MAXPRO® NVR / NVR Hybrid 5.5

Installation Notes

Upgrade Support

- Upgrade to MAXPRO® NVR 5.5 Build 558 is supported from the following builds only.
 - MAXPRO® NVR v5.0 Build 509 Rev D
 - MAXPRO® NVR 5.0_T patch Build 522
 - MAXPRO® NVR 5.0 SP1 Build 532

Edge Analytics Annotation Support

Camera built in Annotations feature helps to trace and locate the moving subjects in live/recorded video and generates an alarm if intrusion or loitering is detected. After this feature is enabled in NVR, subjects in video when found in Region Of Interest, is bounded by Green rectangle box and on alarm conditions, it will be signified with a change in color (Red) of bounding box.

In addition capturing snapshots with Annotation bounding box in Live and Recorded video is supported. User can find the captured snapshots under Snapshots/Clips pane.

Annotation support for Intrusion Trace and Loiter Trace in Live and Playback video is supported with only Equip Series specific cameras.

Refer to the MAXPRO® NVR 5.5 Installation and Configuration guide for complete details on how to configure Annotation feature.

Note: *Currently Annotation feature works only with CPU Decompression + CPU rendering and GPU Decompression + CPU rendering.*

Annotation feature is supported with the following camera models and firmware version:

S.No	Camera Model	Firmware	Loiter	Intrusion
1	H4D8GR1	2.420.HW00.9, Build Date: 2018-12-17	V1.20.60	V1.20.60
2	HCD8G			
3	HBD8GR1			
4	HFD6GR1	1.000.HW00.9, Build Date: 2018-12-17	V1.20.60	V1.20.60
5	HFD8GR1			
6	HDZ302DE	1.000.0043.3, Build Date: 2019-01-07	V1.20.60	V1.20.60
7	HDZ302D			
8	HDZ302DIN			

Note: *The PTZ Model cameras (HDZ302DE, HDZ302D, HDZ302DIN) after the firmware upgrade will be compatible with MAXPRO® NVR T-Patch 532 and above versions.*

Enhancements in Live View

Time to screen for the Live Video after drag and drop is improved.

Other Changes or Enhancements

Addressed the following field support issues in this release:

- Support for H.265 cameras after ONVIF protocol Media Service 2 updates
- Improvement in NEO recording engine boot up time
- Zoomed view for 360 Fisheye cameras in Dewarped mode
- Correction in the bit rate details displayed in NVR viewer
- Improved the CPU usage of Archival and Backfill services
- Support for Dewarping at 2048 X 2048 resolution for HFD6GR1 cameras
- Failover Improvements
- Storage XML update with Rev B and C type of NVRs

Supported Operating System

Version 5.5 Build 558 is approved for the following operating systems:

Operating System	Service Pack	Recommended Installation Type	Limitations
Windows® 7 Professional 32 bit / 64 bit	1	Client Only	None
Windows® 7 Embedded Standard 32 bit / 64 bit	1	Client Only	None
Windows® 10 Professional 32 bit / 64 bit	None	Server/Client	None
Windows® Server 2012 R2 Standard	None	Server Only	None
Windows® Server 2016 R2 Standard	None	Server Only	None

Please refer to the *Microsoft® Windows Patches Tested with MAXPRO®NVR* document for further details on Windows updates that have been tested with the current software version shipping with MAXPRO® NVR and NVR Hybrid.

What's New in MAXPRO® NVR / NVR Hybrid 5.0 SP1

Installation Notes

Upgrade Support

- MAXPRO® NVR 5.0 SP1 (Build 532) can be applied on top of the following versions only.
 - MAXPRO® NVR v5.0 Build 509 Rev D
 - MAXPRO®_NVR_5.0_T patch Build 522

If SP1 is installed on top of 5.0 Build 509 Rev D then MAXPRO®_NVR_5.0_T patch Build 522 is installed internally.

Patches Merged in SP1

5.0 T Patch

- Refer to the 800-22559V1-E_MAXPRO® NVR_5.0_T Patch_Whats_New_Release_Notes for complete information on new features in 5.0 T Patch.

Windows Expiry Patch

This patch is to make MAXPRO® VMS application not to apply password expiry option for windows users. Refer to the MAXPRO® VMS_ Windows Expiry_Patch_Release Notes for detailed information.

Archival Improvements

Include Archived Clips

This feature allows user to search Archived clips including the recording clips. User needs to select Include Archived Clips check box under Filter area while searching for recorded clips. Based on the search criteria the archived clips are displayed in Grey color. When user drag and drop the archived clips in to the panel then camera name and clips status as REC is displayed.

Note: *If user selects Include archived clip check box and then search for archived clips, it displays only auto archived clips. It will not display the manually archived clips.*

Refer to the MAXPRO®NVR 5.0 Operator Guide guide for complete details on how to search for Archived clips.

Primary and Archived Location

The Archived clips in the Result window also displays the location of Archived clip as explained below.

- Archived: The clip is available in Archived path
- Primary, Archived: The clips is available in both primary storage and Archived path

Camera Name & Clip status

In Viewer screen following are the improvements:

- Under Snapshots/clips, the folder naming structure is changed to camera name.
- When a user drag and drops a archived clip into panel, the archival camera name with clip status Rec is displayed.
- If Archived clips are played in MAXPRO® clip player then the camera name and clip status is also displayed.

Archival Schedule Check box

Ensure Clip scheduled for archival are not deleted until archived check box is introduced in System tab > Archival Schedule to ensure that clips will not be deleted by the system until it is archived. The following are the benefits if user selects this check box.

- If the clip deletion schedule is reached for a specific clip then this feature will retry and archive the clip.
- This check box settings is applicable for the following:
 - Integrity services

- Neo Deletion Scheduled
- Disk Space Full
- Distress deletion

Archival Clip and Deletion Retry

This feature is introduced to allow user to configure the Archival and Deletion retry settings in the config file available in bin folder. For any reason if the archival drive disconnects then based on the config file settings the:

- Archival clip retry feature will help to get the pending archival clips.
- Deletion clip retry feature will retry the process and deletes the clips.

The default value for retry process is set to 4. User can set the required number for archival and deletion retry process.

Refer to the MAXPRO® NVR 5.0 Installation and Configuration guide for complete details on how to set the retry process.

Validation Message For Network Credentials

If user adds a Network Drive for Archival without Domain, Username and Password then a validation message is displayed to provide the network credentials.

Disabled Password Never Expires

In User tab, if **IS Windows user** check box is selected then the **Password Never Expire** check box is disabled and it cannot be cleared. This ensures that for a Windows user the password will never expires

Playing archived clips through Client machine

User was unable to access and play the archived clips from NVR server machine. If user drag and drops the archived clips into the viewer then an error message is displayed.

User needs to have the privileges to access the archived clips from remote NVR clients. Refer to the MAXPRO® NVR 5.0 Installation and Configuration guide for complete details of the possible combinations to play the archived clips from client machine

Different Scenarios to playback Archived Clip

“Clip does not exist or you do not have the permission to view it” message is displayed if user drag and drop a archived clip on a salvo. This is because of the client machine has no access to the Archived shared path. Access permission to Archival shared drive should be granted to client machine also.

Below table explains various scenarios in which the archived clip is playable. User needs to perform suitable scenario settings to avoid the error message and playback the clip.

If NVR Server Credentials	then NVR Client Credentials	If Shared Drive Credentials are	If Drive Type is	Playback Supported	Workaround if Playback Fails
Administrator, Password1	Administrator, Password1	NA	Fixed	Yes	None

If NVR Server Credentials	then NVR Client Credentials	If Shared Drive Credentials are	If Drive Type is	Playback Supported	Workaround if Playback Fails
Administrator, Password1	Administrator, Password2	NA	Fixed	No	None
Administrator, Password1	NVR-admin, Password1	NA	Fixed	No	Workaround for Client - In fixed path, machine need to create the Client user name with same password and provide (Read) permission for the Archival drive or folder.
Administrator, Password1	MaxproNVR, Password1	NA	Fixed	No	Workaround for Client - In fixed path, machine need to create the Client user name with same password and provide (Read) permission for the drive or folder.
Administrator, Password1	Administrator, Password1	Administrator, Password1	Shared	Yes	NA
Administrator, Password1	Administrator, Password1	NVR-admin, Password1	Shared	No	Workaround for Client - In Shared path, machine need to create the Client user name with same password and provide (Read) permission for the Archival drive or folder.
Administrator, Password1	NVR-admin, Password1	Administrator, Password1	Shared	No	Workaround for Client - In Shared path, machine need to create the Client user name with same password and provide (Read) permission for the Archival drive or folder.
Administrator, Password1	NVR-admin, Password1	NVR-admin, Password1	Shared	Yes	In server machine it will not stream
NVR-admin, Password1	Administrator, Password1	NVR-admin, Password1	Shared	No	Workaround for Client - In Shared path, machine need to create the Client user name with same password and provide (Read) permission for the Archival drive or folder.
Administrator, Password1	Administrator, Password2	Administrator, Password2	Shared	Yes	None
Administrator, Password2	Administrator, Password2	Administrator, Password1	Shared	No	None

If NVR Server Credentials	then NVR Client Credentials	If Shared Drive Credentials are	If Drive Type is	Playback Supported	Workaround if Playback Fails
Administrator, Password1	Administrator, Password2	NVR-admin, Password1	Shared	No	Workaround for Client - In Shared path, machine need to create the Client user name with same password and provide (Read) permission for the Archival drive or folder.
Administrator, Password1	NVR-admin, Password1	Administrator, Password2	Shared	No	Workaround for Client - In Shared path, machine need to create the Client user name with same password and provide (Read) permission for the Archival drive or folder.
Administrator, Password1	NVR-admin, Password1	NVR-admin, Password2	Shared	Yes	NA
NVR-admin, Password1	Administrator, Password1	Administrator, Password2	Shared	No	None
NVR-admin, Password1	Administrator, Password1	NVR-admin, Password2	Shared	No	Workaround for Client - In Shared path, machine need to create the Client user name with same password and provide (Read) permission for the Archival drive or folder.
NVR-admin, Password1	NVR-admin, Password2	Administrator, Password1	Shared	No	Workaround for Client - In Shared path, machine need to create the Client user name with same password and provide (Read) permission for the Archival drive or folder.

Supported Operating System

Version 5.0 SP1 Build 532 is approved for the following operating systems.

Operating System	Service Pack	Recommended Installation Type	Limitations
Windows® 7 Professional 32 bit / 64 bit	1	Client Only	None
Windows® 7 Embedded Standard 32 bit / 64 bit	1	Client Only	None
Windows® 10 Professional 32 bit / 64 bit	None	Client Only	None
Windows® Server 2012 R2 Standard	None	Server Only	None
Windows® Server 2016 R2 Standard	None	Server Only	None

Please refer to the *Microsoft® Windows Patches Tested with MAXPRO®NVR* document for further details on Windows updates that have been tested with the current software version shipping with MAXPRO® NVR and NVR Hybrid.

What's New in MAXPRO® NVR / NVR Hybrid 5.0 T-Patch

Installation Notes

Upgrade Support

- MAXPRO® NVR 5.0 Build 522 T patch can be applied on top of v5.0 Build 509 Rev D.

This update applies to the MAXPRO® Family - Turnkey NVR and NVR Hybrid solutions (XE, SE, PE) and Software only.

Note: *For unsupported lower versions, first upgrade to 4.0 87 Rev H and then apply the MAXPRO® NVR 5.0 Build 509 Rev D to upgrade to 5.0 T Patch. Refer MAXPRO® NVR 5.0 Installation and Configuration Guide on how to upgrade to 5.0 build 509 Rev D.*

Improved GPU rendering

GPU Rendering capability is now enhanced to handle the camera video packets along with decompression technique. User can view smooth and clear live video through GPU rendering. User should modify the registry value in client or server machine to enable GPU rendering mode.

Refer to the MAXPRO® NVR 5.0 Installation and Configuration guide for complete details on How to configure the Registry value to experience the improved GPU rendering mode.

GPU Rendering Combinations

The below table explains the combination settings between Enabling GPU Rendering option in Preference tab and Registry settings.

IF	And if	Then
User enables Enable GPU Rendering check box in Preferences > Rendering options tab	user sets GPU_Rendering_Value flag to 1	Both Decompression and Rendering will be processed through in GPU mode.
User enables Enable GPU Rendering check box in Preferences > Rendering options tab	user sets GPU_Rendering_Value flag to 0	Decompression process will happen through GPU and Rendering will be processed in CPU mode.
user does not select Enable GPU Rendering check box in Preferences > Rendering options tab	user sets GPU_Rendering_Value flag to 1	Both decompression and Rendering will be processed through CPU.

60FPS support for EQUIP-S 1080P cameras

EQUIP-S 1080 P Model cameras are now supported with 60FPS rendering through GPU Rendering Mode. The following are the list of cameras support 60 FPS.

Note: *Cameras beyond 1080 resolution will not support 60 FPS rendering.*

- H4L2GR1V
- HBL2GR1V
- HCL2GV
- H4W2GR1V
- HBW2GR1V
- HBW2GR3V
- H3W2GR1V
- HCW2GV
- H2W2GR1

NAS Recording support

Network Attached Storage (NAS) external drive is now supported for recording video clips along with other drives in MAXPRO® NVR. This helps user to extend the storage capacity to save the recordings. User needs to configure the directory and user permission in respective NAS web page to use this feature.

Refer to the MAXPRO® NVR 5.0 Installation and Configuration guide for complete details on How to configure and use NAS drive for recording.

Note: *If customer is using Infotrend NAS then they have to create the user inside the NAS box. The username could be NVR-Admin or Administrator.*

Limitations in NAS Recording

- User should not use “-” (Hyphen/Underscore) during the share folder creation.
- If user selects the NAS drive for Recording, then in NAS Web page user need to be create user with same credentials as NVR NeoStorageServer services. For example if NVR service is running with credentials Administrator or NVR-admin then the same user should be created in NAS web page.
- If Neo service is running with “NVRservicesuser” credentials then it is important to have same credentials for NAS User. If different user credentials are created in NAS then recording will not work.
- If user adds multiple directories from same NAS into NVR then the available space will be incorrect (it will add NAS space for every such directory added).
- In Disk management window, after configuring the storage path for NAS drive, the Total Space (GB) columns displays Invalid Drive. For NVR to show the drive details the recording has to switch to the NAS drive.

Video Anonymization

This feature allows user to configure or mask identifiable objects based on the scene environment. It provides flexibility to choose and configure the required camera based on the mounting position. User need to select the required **Environment** from the Stream Preferences Settings based on the camera mounting position. The following are the options supported.

- **Variable Scene:** If the scene contains both stationary and moving people or objects then select this option to anonymize the objects in the scene.
- **High Motion Scene:** To anonymize the objects in high motion in the scene.
- **Still Scene:** To anonymize the objects in a scene where the scene predominantly contains stationary people and objects.

Refer to the MAXPRO® NVR 5.0 Installation and Configuration guide for complete details on How to configure and user Video Anonymization options.

Other Changes or Enhancements

Recording Gap issue fix merge

Issue Description: NEO recording gap is noticed for 5 seconds, due to which time-line is displayed as recorded but actually the recording was missing.

Solution: This gap is because of overwriting the last segment for previous event recording and it has been fixed in this T patch.

Limitations in Improved GPU Rendering

The following list of camera/models/machine will not render in improved GPU mode:

- GrandEye Camera Models
- Dewarping Camera Models
- Anonymization enabled cameras
- Analog Cameras
- 32 bit processor rendering client machine
- The machine which does not have Intel HD - graphics card (GPU) will not use H.265 codec format for rendering.

Supported Operating System

Version 5.0 Build 522 is approved for the following operating systems.

Operating System	Service Pack	Recommended Installation Type	Limitations
Windows® 7 Professional 32 bit / 64 bit	1	Client Only	None
Windows® 7 Embedded Standard 32 bit / 64 bit	1	Client Only	None
Windows® 10 Professional 32 bit / 64 bit	None	Client Only	None
Windows® Server 2012 R2 Standard	None	Server Only	None
Windows® Server 2016 R2 Standard	None	Server Only	None

Please refer to the *Microsoft® Windows Patches Tested with MAXPRO® NVR* document for further details on Windows updates that have been tested with the current software version shipping with MAXPRO® NVR and NVR Hybrid.

Virtualization Support

Please refer to the document *MAXPRO® NVR Server VMware ESXi Specifications* for the minimum specifications required for the MAXPRO® NVR Server Software Virtualization with VMware.

Recording and Monitoring Performance

Performance depends on the hardware specifications and operating system environment of NVR/NVR Hybrid Server and Workstations. Please refer to the respective MAXPRO® NVR/NVR Hybrid data sheets for specifications and supported performance.

MAXPRO® NVR Compatibility - Supported IP Cameras and Encoders

For the complete list of supported devices with MAXPRO® NVR, refer to the Honeywell Open Technology Alliance for updated compatibility list of all manufacturers and models with integration features supported in the MAXPRO® NVR Compatibility section at <https://www.security.honeywell.com/resources/product-compatibility>.

Interoperability Matrix – Honeywell Video and Access Control Systems

Refer to the Honeywell Open Technology Alliance (HOTA), Honeywell Interoperability section at <https://www.security.honeywell.com/resources/product-compatibility> for the latest:

- MAXPRO® NVR and MAXPRO® VMS/Viewer Compatibility Matrix
- MAXPRO® VMS/Viewer and Pro-Watch Compatibility Matrix
- MAXPRO® NVR and WIN-PAK Compatibility Matrix

This page is intentionally left blank

Honeywell Security and Fire

Products Americas (Head Office)
2700 Blankenbaker Pkwy, Suite 150
Louisville, KY 40299, USA
www.honeywell.com/security
' +1 800 323 4576

Honeywell Security and Fire Europe/South Africa

Aston Fields Road, Whitehouse Industrial Estate
Runcorn, WA7 3DL, United Kingdom
www.honeywell.com/security/uk
' +44 (0) 1928 754 028

Honeywell Security and Fire Products Americas

Caribbean/Latin America
9315 NW 112th Ave.
Miami, FL 33178, USA
www.honeywell.com/security/clar
' +1 305 805 8188

Honeywell Security and Fire Asia Pacific

35F Tower A, City Center, 100 Zun Yi Road
Shanghai 200051, China
www.asia.security.honeywell.com
' +86 21 2219 6888

Honeywell Security and Fire Middle East/N. Africa

Emaar Business Park, Sheikh Zayed Road
Building No. 2, Office No. 301
Post Office Box 232362
Dubai, United Arab Emirates
www.honeywell.com/security/me
' +971 (0) 4 450 5800

Honeywell Security and Fire Northern Europe

Ampèrestraat 41
1446 TR Purmerend, The Netherlands
www.honeywell.com/security/nl
' +31 (0) 299 410 200

Honeywell Security and Fire Deutschland

Johannes-Mauthe-Straße 14
72458 Albstadt, Germany
www.honeywell.com/security/de
' +49 (0) 7431 801-0

Honeywell Security and Fire France

Immeuble Lavoisier
Parc de Haute Technologie
3-7 rue Georges Besse
92160 Antony, France
www.honeywell.com/security/fr
' +33 (0) 1 40 96 20 50

Honeywell Security and Fire Italia SpA

Via della Resistenza 53/59
20090 Buccinasco
Milan, Italy
www.honeywell.com/security/it
' +39 (0) 2 4888 051

Honeywell Security and Fire España

Avenida de Italia, nº 7, 2a planta
C.T. Coslada
28821 Coslada, Madrid, Spain
www.honeywell.com/security/es
' +34 902 667 800

Honeywell Security & Fire Pacific

Unit 5, 24-28 River Rd West,
Parramatta NSW - 2150, Australia
www.honeywellsecurity.com.au
HSFPAC.Support@honeywell.com
Ph: 1800 220 345



Document: 800-22559V1-J_MAXPRO® NVR 5.6_Software Release Notes – 5/2019

www.honeywell.com/security

+1 800 323 4576 (North America only)

<https://honeywellsystems.com/ss/techsupp/index.html>

www.honeywell.com/security/uk

+44 (0) 1928 754 028 (Europe only)

<https://honeywellsystems.com/ss/techsupp/index.html>

© 2019 Honeywell International Inc. All rights reserved. No part of this publication may be reproduced by any means without written permission from Honeywell. The information in this publication is believed to be accurate in all respects. However, Honeywell cannot assume responsibility for any consequences resulting from the use thereof. The information contained herein is subject to change without notice. Revisions or new editions to this publication may be issued to incorporate such changes. For patent information, see www.honeywell.com/patents.