RELEASEnotes

1   Version 8.14

1.1   Update information:

These release notes describe changes between Perception (including GEN series firmware) versions

V8.12.21126 and V8.14.21160

1.2   Mid- and long-term support roadmap

Starting with Perception V8.00 some legacy features, mainframe and card support are no longer present.
(A Perception V7.6x maintenance version is available for critical bug fix support)

1.2.1   Supported on latest Windows versions

Including all updates until July 2020:
- Windows 10 Pro 1607 and higher   (64 bit only)

Installation requirements:
- Dot Net Framework V4.8
  (distributed with the install CD and available for download on the internet)
- Microsoft Direct3D® capable graphics card.

1.2.2   Downgrade

Perception V8.xx can be downgraded to the following versions.
- Perception V7.6x
- Perception V7.5x

1.3   Perception versions

Version	Description	
	Perception Standard	Free
1-PERC-AD-0x	Perception Advanced	Paid
1-PERC-VA-0x	Perception Viewer Enterprise	Paid
1-PERC-E64-0x	Perception Enterprise	Paid

1.3.1   Perception supports the following application extensions:

Version	Description	
1-PERC-OP-EDR	eDrive application (setup, live and efficiency mapping table)	Paid
1-PERC-OP-STL	Advanced High Voltage/High Power analysis according STL standards	Paid
1-PERC-OP-HIA	High Voltage Impulse Analysis	Paid
1-PERC-OP-CSI	CSI Runtime extensions (Customized Software Interfaces)	Paid

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1.4 New Features

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1.5 Improvements

Perception	• Units for torque channel now reported as Nm rather than Hz • Solved issue where automation on triggers would not work when using async RT-FDB channels
ePower Suite	• Solved a freeze scenario
Robustness	• Solved case where system initiated an upgrade even though already up to date • Improved reboot robustness, solving case where some input cards might appear invisible after boot. See more details in section 1.5.1

1.5.1 Details on reboot robustness

One issue was fixed where in rare cases some input cards are not recognized and missing in the hardware tree after switching on the Genesis HighSpeed mainframe. This may only happen when using the mains switch to power on/off instead of the power button.

This applies only to GEN7tA, GEN17tA, GEN3iA, GEN7iA mainframes. GEN2tB and GEN4tB are not affected.

Explanation:
The "mains switch" is the black (hardware) switch located at the power cord inlet/fuse holder. The "power button" is the (soft) power button typically at the front of the instrument.

Note: This problem does not show up when using the power button to switch on the mainframe. So, this is a workaround in case a user experiences this problem but does not want to or cannot upgrade.

Update process to fix this issue:

1. Turn off the system using the power button (press button for >4s).
2. Turn on the system again using the power button.
3. Start Perception v8.14 (or higher) and connect to mainframe.
   A firmware update will start automatically.
4. Wait until update is finished.
   The mainframe may reboot several times during this process.
   After completion, Perception will connect to the mainframe.
5. Check if all cards are shown in the hardware tree in Perception.
6. In the very rare case that input cards are still missing, perform a power cycle to the mainframe using the mains switch.

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1.6   Supported Genesis High Speed platforms:

- GEN2tB
- GEN3t
- GEN4tB
- GEN7tA
- GEN17tA

- GEN3i
- GEN3iA
- GEN7i
- GEN7iA

- BE3200

1.7   Supported QuantumX Modules:

NOTE: Due to the latest developments on the GEN DAQ hardware and the availability of Thermocouple inputs and CAN interfaces within the GEN DAQ mainframe itself we will not develop the QuantumX integration any further.

No new QuantumX modules will be supported, and no new features will be added to the QuantumX support.

As soon as the integrated CAN interface for GEN DAQ mainframe is available (Q2/3 2021), and a mainframe with this interface is used, MX 471 can no longer be used (as not needed any longer).

Currently still supported QuantumX modules:
- MX1609KB
- MX1609TB
- MX471B / MX471C
- MX809B
- CX27B as single network access point only, no setup or control of CX27B
Data streaming is available for all other B type or later QuantumX modules.

Note: Perception includes and only works with the following QuantumX software components
QuantumX firmware: V4.12.32.0
HBM common API: V4.0.0.56

Patents no: 7,868,886

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