RELEASEnotes

1   Version 8.12

1.1   Update information:

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

V8.08.21077 and V8.12.21126

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	• Current/Next experiment name now consistent • In case Perception runs on an older Windows version, the audiodg.exe driver might be causing memory leaks upon trigger sounds being played. Playing sound within Perception is now dropped when this driver exceeds 250 MB memory usage • Improved handling of switching from preview to recording state – solving potential issues in the live data management (as used by the ePowerSuite)
ePower Suite	• Fixed issue with inconsistent filter frequency settings • Improved handling of setpoint generation in excel file where race condition might have caused dropped items • Upon Perception connecting with mainframe in 'preview' or 'recording' mode, no state is changed in the mainframe anymore • Reduced Perception memory usage when generating a large amount of setpoints
QuantumX	When connecting to a QuantumX device, and it's clock is found to be mismatching the Perception PC time by more than one day, the QuantumX timestamping is replaced with Perception PC timestamping. This solves scenarios where lack of proper QuantumX time synchronization introduces timestamps from 2019 or earlier.
Configured boot	Applying configured boot now correctly restores the High Rate storage flag for RT-FDB channels
CAN	DBC file generation now is compliant with external validation tooling
Robustness	Fixed case where auto-ranging caused embedded mainframe software to crash

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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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