
ABB MOTION SERVICES

ABB Ability™ Digital Powertrain

What's new? PT17

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Note: In this document, ABB Ability™ Digital Powertrain portal will be referred as "Powertrain portal".

Enhancements for rotating equipment

Additional operating parameters to MACHsense-R

In Powertrain portal, the asset MACHsense-R includes following KPIs:

- Unbalance
- Advanced misalignment
- Looseness
- Broken rotor bar
- Advanced bearing condition

To view the KPIs, go to Powertrain & asset details → Detailed information → Assets → Operational signals.

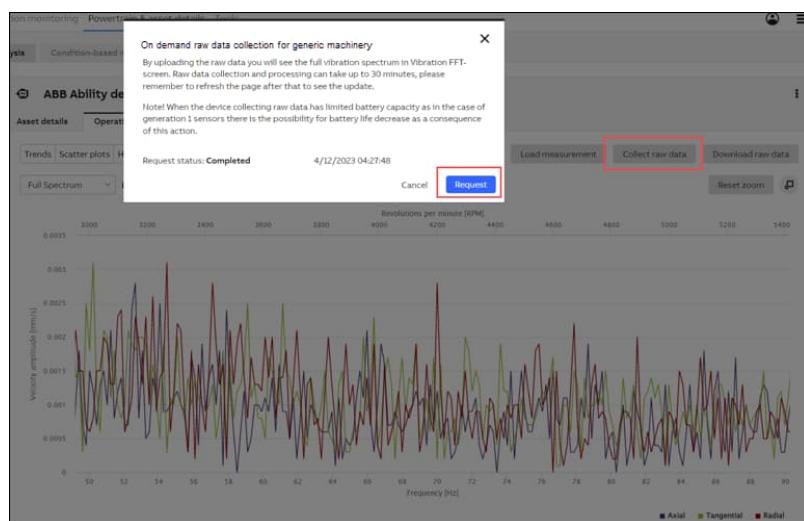
The screenshot shows the 'Operational signals' section of the portal. It lists several parameters with their current values and download/upload icons. The 'Advanced Misalignment' and 'Looseness' parameters are highlighted with a red border.

Parameter	Value	Action
DE Kurtosis	0	Download (+) / Upload (-)
DE Peak to Peak	0	Download (+) / Upload (-)
Drive End Horizontal Crest Factor	0	Download (+) / Upload (-)
Advanced Misalignment	-	Download (+) / Upload (-)
Looseness	-	Download (+) / Upload (-)

On demand load measurement for generic machinery

In Powertrain portal, under the Vibration FFT tab, you can trigger an on-demand request for raw data collection for the generic machinery monitored by sensor.

Go to Powertrain & asset details → Detailed information → Operational parameters → Vibration FFT and click Collect raw data. In the pop-up window, click Request to confirm the raw data collection.



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Enhancements for drives

Identifying drive types of loading package LAAAB for NETA-21

In Powertrain portal, the drives ACS8080, ACS6080, and ACS5000Gen3 and their sub-drive types (AR, SFC, AD, SD...) of loading package LAAAB for NETA-21 remote monitoring tool, can be identified based on the following drive parameterization:

- Parameter *95.01 Converter type* - defines the drive type
- Parameter *95.03 Drive output configuration* - defines the drive output configuration
- Parameter *99.03: Motor type* - defines the motor type if par. *95.03* = motor
- Parameter *119.01 Grid side Inverter operation mode* - defines the grid operation mode if par. *95.03* = Grid.

Downloading measurements data

In Powertrain portal you can download the sensor measurements data and view the results in a worksheet. The download option applies for both basic and premium subscriptions.

Go to Powertrain & asset details → Detailed information → Assets → Sensor properties. Click on : → Download measurements. The system sends you an email notification with an attachment that contains the exported measurements.

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