PRODUCT INCREMENT 19

ABB Ability™ Smart Sensor

What’s new?

New Event log

The New Event log can be found on the Asset Details menu. The Event log shows asset events during a selected time period. User can select between Alarm, Alert and Maintenance events to be shown in the graph. Events can also be sorted by status: open or closed. Every user can see and close events on this page.

Users can close events by selecting the “Close” button next to an event. After clicking the button, user can specify why the event was closed. This helps to filter closed events as shown in the screenshots below.
Acknowledge event.

Insert a comment (maximum of 500 characters)

Select a closing reason:

- **Dismissed** / The technician decides that this notification does not need to be displayed. It has not been corrected.
- **False alarm** / The technician has investigated and decided that the value was incorrectly measured/assessed by the sensor.
- **Corrected** / The technician has investigated the issue and taken the necessary corrective action.

Select type:

- **Alarm** (0 instances in 0 groups)
  - There are no alarms events.

- **Alert** (0 instances in 0 groups)
  - There are no alerts events.

- **Maintenance** (0 instances in 0 groups)
  - There are no maintenance events.

Status: Closed
Filter by reason:

- **All**
- **Dismissed**
- **False alarm**
- **Corrected**

Cancel  Save
New Notification Configuration

The New Notification Configuration page is located under the Asset Details menu. Different notifications can be configured on this page in the same way as before. There is an explanation text for each notification type. Every user can modify these asset-specific notifications.

Users can now enable and disable alerts and/or alarms for individual parameters for a particular asset. This function can be found from the Operational parameters tab in the Asset Details menu. By clicking Alert/Alarm Level Configuration, user can select whether the notifications are sent to users or not. These notification settings will affect all the users that have access to the asset. Please note that if notifications are disabled here, the alerts/alarms are not shown in the Event Log.
Asset and sensor mounting variant display

User can see the asset mounting / sensor position picture on the Asset Properties tab in the Asset Details page.

Select Asset Type feature

It is now possible to select the asset type (bearing or gearing) to which you want to attach your Smart Sensor for mounted bearings to while commissioning it.
Scattered plots and histograms in the Powertrain portal

In addition to the usual trend graphs, users can now view scattered plots and histograms for pumps and motors in the Powertrain portal.

Alert and alarm level suggestions

The Smart Sensor portal now suggests alert and alarm levels for overall vibration and temperature when users enter the alert/alarm level configuration menu. The suggestion is calculated based on historical data collected in the selected time frame.

Minor fixes for the texts and pop-ups and improvements for the usability

A few small changes that make the user experience smoother.
Updates specific for Smart Sensor for mounted bearings

Velocity RMS KPI based on customer feedback

Velocity RMS Key Performance Indicator has been introduced with the new available firmware for the smart sensor for mounted bearings. This new KPI will be listed under the operational parameters. The following features have also been introduced with the new firmware.

Set measurement interval feature

The ability to change the measurement interval of your Smart Sensor for mounted bearings has been introduced to the application. This feature allows you to select a measurement interval between 5 minutes to 12 hours. Default measurement interval is 1 hour.

Set Accelerometer Range feature

The ability to select between auto range or force to a specific range for the vibration amplitude of your Smart Sensor for mounted bearings has been introduced to the application. This feature allows you to automatically set your range or select a range of 2, 4, 8, and 16gs. Default accelerometer range is 2gs.
Start/stop detection feature

The ability to calibrate the running state of your bearing or gearbox has been introduced to the application. This feature allows you to calibrate the running state of your equipment by reading measurements while the machine is stopped and while it is running. Overall vibration values from the acceleration sensor for each of the two states will be collected and then the arithmetic mean will be calculated. This will be defined as a threshold between the two states.