pureSignal

pureMEMS release notes and release history

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- **v3.10** *2024-12-12*
  - Improvement
    - Improved RPM measurement accuracy.
    - Further improved battery life.
    - Added more detailed error messages.

- **v3.9** *2024-11-13*
  - Change
    - purePULSE can now take 30s long RPM measurements, improving low speed machinery support.
  - Fix
    - Fixed a bug which could sometimes cause the sensor to reboot.
  - Improvement
    - Optimized sleep current draw, significantly improving battery life. This increases battery life to over the previously stated 3 years.

- **v3.8** *2024-10-16*
  - Change
    - pureMEMS now synchronizes RTC before taking every time signal measurement for more accurate time stamps.
    - purePULSE default settings changed.

- **v3.7** *2024-09-06*
  - Change
    - New default settings.
  - Improvement
    - Improved wireless communication in hybrid LoRa networks.

- **v3.6** *2024-08-19*
  - Improvement
    - Improved wireless communication stability while in synchronized measurement mode.

- **v3.5** *2024-05-07*
  - New
    - Synchronized measurements with purePULSE.
  - Change
    - New default settings.
  - Improvement
    - Improved accuracy of purePULSE RPM measurement.

- **v3.4** *2024-03-13*
  - New
    - Added support for purePULSE.
    - Synchronized measurements.
  - Change
    - RMS and 0-P acceleration alarms are now only supported on the main axis (Z)

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- **v3.3** *2024-01-22*
  - New
    - Support communication with public LoRa networks.

- **v3.2** *2023-11-14*
  - Change
    - Trend measurement interval now supports minimum of 5 minutes instead of 30 minutes. *Note, using a trend measurement interval of 5 minutes will reduce the battery life.*
    - Trend value measurement is no longer performed automatically at sensor startup. This is to prevent trend value measurement while the user is still holding the sensor.
  - Improvement
    - Improved wireless communication stability.

- **v3.1** *2023-10-29*
  - Improvement
    - Improved FOTA (Firmware Over The Air) functionality.

- **v3.0** *2023-06-29*
  - Improvement
    - Sensor now draws less power while in sleep mode, improving battery life.
    - Further improve sample rate accuracy.

- **v2.5** *2023-03-15*
  - Change
    - Vibration alarm levels are now disabled as default until changed / enabled by user.

- **v2.4** *2023-03-01*
  - Fix
    - Fixed issue where some sensors were stuck on max radio power.
    - Fixed issue where settings were not always applied correctly.
  - Improvement
    - Improved sample rate accuracy.

- **v2.3** *2023-01-12*
  - New
    - Added vibration alarm levels.
    - Added automatic triggering of time signals when vibrations exceed current alarm limits.
  - Fix
    - Fixed issue that prevented some sensors to update to firmware v2.2.
    - Fixed issue causing some settings to not sync correctly.
    - Fixed issue where some time signals did not upload correctly.

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- **v2.2** *2022-11-30*
  - New
    - Auto test of sensor components at startup.

- **v2.1** *2022-11-18*
  - New
    - Added support for FOTA (Firmware Over The Air). Sensors can now be updated remotely over the air.
    - RTC (Real Time Clock) now synchronizes to gateway.
  - Improvement
    - Improved wireless communication stability.

- **v2.0**
  - Internal version only.

- **v1.1** *2022-09-06*
  - New
    - Added setting for acceleration HP-filters.
  - Change
    - New default settings.
  - Fix
    - Cloud sync now triggers correctly.

- **v1.0** *2022-08-19*
  - New
    - First initial firmware version.