

New modes for OPTIME sensors: 'Dynamic' and 'High dynamic'

Extending OPTIME to almost all of your plant

SCHAEFFLER

Requirements

- Sensor of generation 2:
AW-3A, AW-5A, AWX-5
- Sensor firmware:
Version 1.3.2.20 or higher
- Gateway firmware:
Version: 1.2.X or higher
- OPTIME mobile app:
Version 2.0.19 or higher
- New OPTIME infrastructure

Selectable modes

- Standard
(operating more than 4 hours continuously)
- Dynamic
(for process machines)
- High dynamic
(for cranes, elevators, conveyors)

Motivation for introducing new measurement modes:

In order to save energy, more and more auxiliary machines are no longer running continuously, but are now controlled by processes. In the standard measurement mode, which works with a fixed measurement interval of 4 hours, there is a high risk of capturing only a few valid measurements per day for these machines.



By introducing the new measurement modes, we can significantly increase the number of machines, which can be monitored with OPTIME!

General remarks on the new measurement modes:

- The hardware of the generation 2 OPTIME sensors has been upgraded with an ultra-low power MEMS, that enables our sensors to 'wake up' in case of stronger vibrations, allowing more flexible and frequent measurements.
- A maximum of 6 readings per day will be kept (generally at 4-hour intervals).
- Machines must operate for an average of at least 7 hours per week for wake-up learning.
- During the 7-day wake-up learning period, the sensor will **not monitor** the machine.
- Using either 'Dynamic' or 'High dynamic' mode will reduce sensor life by less than 7.5%.

