airius

WIRELESS VIBRATION SENSOR

AIRIUS II | AIRIUS II EP | AIRIUS II LTE-M | AIRIUS II LTE-M EP

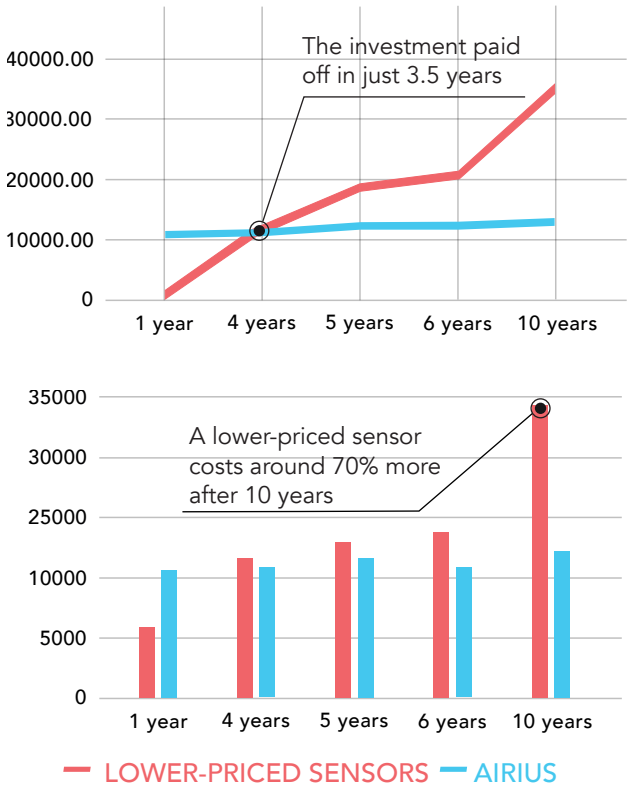
SPM

BUILT TO LAST – SUSTAINABLE REMOTE MONITORING WITH LOW LIFECYCLE COST

Airius wasn't designed to stand out for low cost, but to be the smartest long-term choice. It is built to last, designed to perform, and engineered with sustainability in mind.

With its robust design and easy on-site battery replacement, the Airius wireless vibration sensor delivers long-lasting performance and minimizes lifecycle cost, promoting sustainability for years.

LOWER-PRICED SENSORS VS. AIRIUS



LOWER TCO. LESS WASTE.

SPM Instrument AB | Tel: +46 152 22500 | info@spminstrument.se | www.spminstrument.se

ENGINEERED TO OUTLAST

REPLACEABLE BATTERIES

No throwaway units, no costly hardware swaps

LESS DOWNTIME

No gaps in data or re-commissioning headsches

BETTER SPECS

Earlier fault detection saves real money on maintenance

MORE SUSTAINABLE

Fewer replacements, lower CO_2-footprint

Looking beyond the price tag

Most wireless vibration sensors must be fully replaced when the battery reaches end-of-life. Airius is designed differently. By separating energy storage from sensor hardware, Airius enables easy battery replacement without discarding the sensor, extending service life while reducing electronic and material waste and lifecycle emissions. The environmental benefit is achieved by reducing demand for electronic components, housings, and metals while maintaining long-term monitoring functionality.

Lifecycle carbon footprint – design comparison

AIRIUS (REPLACEABLE BATTERY)	LIFECYCLE ASPECT	SEALED WIRELESS SENSOR
0.8-1.5 kg CO_2e (sensor body)	Initial unit footprint	1.2-3.1 kg CO_2e per unit
Replace battery only	End-of-life action	Replace entire sensor
0.3-0.8 kg CO_2e per battery	Replacement footprint	1.2-3.1 kg CO_2e (new unit)
One-time body + incremental batteries	Emission distribution	Repeated full-unit emission

The long-term advantage

Independent cost comparisons show that while lower-cost, sealed sensors may appear attractive initially, Airius becomes the more cost-effective choice within just four years.

A recent lifetime cost analysis comparing Airius with a well-known competitor shows that:

- Break-even is reached already after approximately 3.8 years.
- After 10 years, the competitor's total cost of ownership is almost three times higher than Airius.
- By avoiding repeated full-sensor replacements, Airius also delivers around 50% lower cumulative CO_2e emissions over a 10-year service life.

SPM Instrument AB | Tel: +46 152 22500 | info@spminstrument.se | www.spminstrument.com