



The sensors already fitted, and what they are enough to see

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1,006 usable sensors out of 1,340 · fictional document

Fictional document — demonstration example

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What the existing sensors detect, family by family

Family	Quantities already reported	What they announce	Observed warning time
Injection presses	Oil temperature, injection pressure, cycle time , consumption, screw position	Cycle time alone catches 6 drifts out of 10	3 to 5 weeks

Family	Quantities already reported	What they announce	Observed warning time
Compressors	Pressure, temperature, loaded running time	+8 % of loaded running time at constant output = leak or tired valve	6 weeks
Chillers	Setpoint vs actual gap, recovery time	Exchanger fouling, refrigerant charge	4 weeks
Conveyors	Motor current	The most ordinary sensor on site and the most revealing — a bearing is seen before it is heard	2 to 4 weeks

The 334 sensors not used

Category	Number	Why	Action proposed
On/off safety sensors	210	No usable trend — they say yes or no	None: they are doing their job
Dead or drifted sensors	124	Signal absent, frozen or inconsistent	List attached
Of which on equipment that matters	31	—	Repair: €4,900 in total — the only recommended purchase

What is advised against, and why

Project	Cost	What the history says	Recommendation
Vibration signature on all 147 ancillaries	€96,000 + 3 weeks of installation shutdowns	1 production stoppage out of 14	Advised against for now

Project	Cost	What the history says	Recommendation
Vibration signature on 4 compressors and 6 chillers	€11,200	5 shutdowns out of 14, 39 hours	To revisit in 3 months, once the repairs are done
Repair of the 31 sensors that matter	€4,900	Machines already behind 6 shutdowns	Recommended, first

Vibration signature monitoring is the fine measurement of a machine's vibrations; it reveals a worn bearing or gear before anything else does. **It is excellent and it is expensive:** it belongs where the history shows it pays, not everywhere.

Decision on the €4,900 of repairs: _____ · Review date for the €11,200: _____

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