9 trend rules — costed over 18 months

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640 signals, 512 confirmed · fictional document

Fictional document — demonstration example

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Fictional document, produced for the demonstration. **A trend rule judges a run of measurements rather than a single one:** it looks at the direction and the speed of the movement. Every rule below was run across the plant's 18 months of readings before being proposed.

What the nine rules give, together

Measure	Ranges alone	With the 9 rules
Signals over 18 months	**3,100**	**640**
Signals confirmed at the next inspection	41	**512**
Share of useful signals	**1.3 %**	**80 %**

Three of the nine rules, in plain words and in figures

Rule	Statement	Signals / 18 months	Confirmed	What it would have saved
3	**Five consecutive holding-pressure readings more than 1.5 bar below target**	**41**	**34**	**18,400 parts**
5	**Melt temperature rising by more than 0.3 °C per reading over seven readings**	26	**21**	Presses 3 and 4 only
8	**Cycle time lengthening by more than 0.2 seconds within an hour**	19	**17**	**The only rule that announces wear rather than a setting**

The tightened range, written and replayed

Control point	Version in force	Tightened version proposed
Material moisture, press 2	**620 alerts over 18 months**	**71 alerts**
Real drifts caught	4	**4 — none lost**
Effect	—	**549 fewer shop-floor call-outs**

Why the confirmation rate is the figure that matters: an alert confirmed four times out of five gets read. **That is the condition for the 128 points to be genuinely watched, and not merely connected.**

Proposed go-live: a fortnight of observation, rules active but triggering nothing, then a comparison of the real count with what the history announced. **The production manager then signs the ones that hold, one by one.**

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