



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.**

isolation depends on the deployment mode set out in the quotation, no dedicated isolation being presumed; the encryption mechanisms in transit and at rest, their components and key management are those documented for the architecture chosen; roles and permissions are configured and accepted for the identities and systems actually connected; the events logged, their content, their retention period and who may access them are defined for the deployment chosen.