

Gauge Calibration Log

How-to guide: what the workbook does, how to use it and what every number means.

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Gauge Calibration Log

Keep every gauge's due date, as-found results and calibration history in one register, and see what is overdue, what falls due next and which gauges drift.

For: Quality engineers, metrology and calibration technicians, and quality managers who control measuring equipment for ISO 9001, IATF 16949, AS9100 or ISO 13485 audits.

Version 1.0.0 · updated 15 October 2026

Quick start

1. On Setup, set the status date, the due-soon window and your targets, then replace the example gauge types, locations and calibration providers.
2. On Gauge Register, list every gauge once: ID, description, type, location, calibration interval and whether it is in service.
3. On Calibration Records, add one row per calibration: gauge, date, provider, as-found and as-left result, impact review, certificate and cost.
4. Read the Check columns: anything other than OK names the problem in words.
5. Move the status date forward each time you update the log, then open the Dashboard for overdue gauges, the next 12 months and drift by gauge type.

What is in the workbook

Start Here	Read this first: what the workbook does and how to use it.
Setup	Status date, due-soon window, your targets, and the gauge type, location and calibration provider lists.
Gauge Register	One row per gauge: interval and status. Last calibration, next due date and due status come from the records.
Calibration Records	One row per calibration: as-found and as-left results, impact review, certificate and cost.
Dashboard	Overdue and due-soon gauges, on-time calibration, out-of-tolerance finds and the next 12 months of recalls.
Method	How every number is calculated, with assumptions, limits and sources.
Verify	Self-check: the workbook's formulas recomputed on fixed inputs against an independent reference.

What each number means

Quantity	How it is calculated	Units
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Quantity	How it is calculated	Units
Records	Count of Calibration Records rows with this gauge ID (COUNTIFS).	records
Last calibrated	Latest Date calibrated of this gauge on Calibration Records: SUMPRODUCT(MAX((ID matches) x date)), blank with no record.	date
Next due	Last calibrated + interval (calendar days, from the register).	date
Days to due	Next due - status date. Negative = days overdue.	days
Due status	Not in service: the status (Out of service, Retired). In service: Overdue when there is no record or the status date is after the next due date; Due soon when the next due date is within the Setup window; otherwise OK.	-
Previous calibration, due date	For each record: the latest earlier record of the same gauge; due date = previous calibration + the gauge's interval. A gauge's first record has no due date.	date
Days late, on time	Days late = MAX(0, date calibrated - due date). On time = Yes when calibrated on or before the due date, No after it.	days, -
On-time calibration	Calibrations that fell due between From and To and were done on time / (records with a due date between From and To + in-service gauges overdue now whose next due date is between them).	%
Found out of tolerance	Records between From and To with As found = Out of tolerance / all records between them.	%
Recalls falling due	In-service gauges whose next due date is in each month from the status date on; the first column adds the gauges overdue now.	gauges
Calibration cost	Sum of the Cost column of records between From and To. Example values; your currency label, no exchange rate.	currency

Assumptions, limitations, sources and the self-check (the Verify sheet, which recomputes the workbook's formulas on fixed test inputs) are in the workbook. The last page shows the Dashboard with the example data for Northgate Precision, a fictional business.

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Engineering estimates for planning and improvement work. Verify the results against your own process, data and standards before you rely on them.

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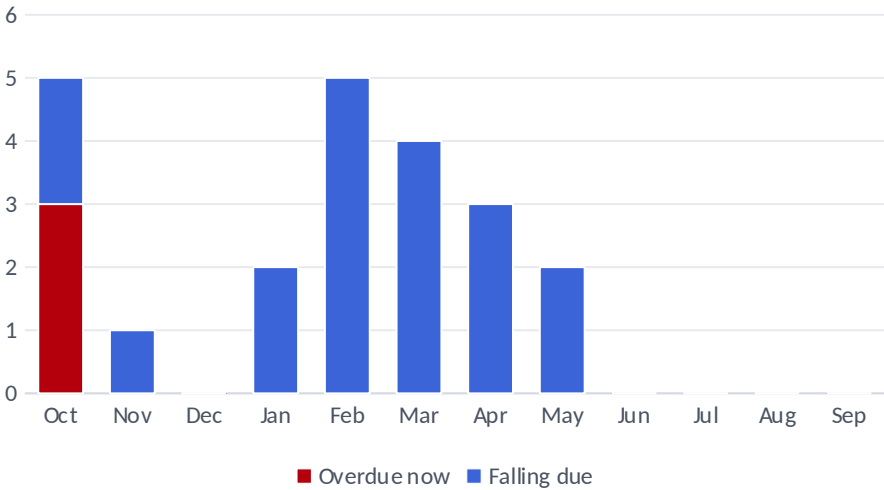
Overdue and due-soon gauges, on-time calibration, out-of-tolerance finds and the next 12 months of recalls.

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From To
Register figures at the status date, 9 Oct 2026. Period figures (blank = all): 82 calibrations done between the dates; on time counts the calibrations that fell due between them.

GAUGES OVERDUE	DUE SOON	CALIBRATED ON TIME	FOUND OUT OF TOLERANCE
3	3	88.5%	9.8%
Limit 0	In service, due within the Setup window	Target 95.0%	Limit 5.0%
Above target		Below target	Above target

Recalls falling due, next 12 months



Found out of tolerance, by gauge type

