



DIGITALIZATION IN THE PROCESS INDUSTRY

# PART LIMS

How to digitalize your lab area  
and take your quality management  
to the next level



## Get the Most Out of Your Data with Digital Lab and Test Management in the LIMS Database

Information from test equipment, analyses by lab technicians, important key figures from recipes – your lab accumulates numerous data records every day that need to be recorded and analyzed. As a result, it's easy to lose track of everything, especially if you're a mid-sized company in the process industry.

The reason for this is that they often haven't implemented completely integrated, digital processes in the lab area, but instead work with heterogeneous, manual structures. This isn't only inefficient; it also hinders quality control, since a large part of the valuable information from test and measurement results is not optimally utilized.

PART LIMS – the laboratory information and management system tailored to the mid-sized process industry – simplifies and digitalizes your lab management in just one simple step. It organizes the incoming quality information from production and incoming goods and generates analyses and tests that you can retrieve at any time. With this digitalized testing system, you ensure high-quality products and thereby secure your competitiveness in the long term.

# The Benefits of PART LIMS for You:

1

## **Improved Quality Control:**

All measurement data is merged in the central LIMS database, meaning that deviations from the desired parameters are quickly apparent

2

## **Greater Transparency:**

All lab processes are mapped seamlessly and in real time in our LIMS system

3

## **Deeper Insights:**

Access your test results and related evaluations from anywhere

4

## **Higher Efficiency:**

By introducing digital data processing in the lab, you can replace many outdated, manual processes and avoid media disruptions

5

## **Increased Flexibility:**

PART LIMS is easily scalable and thus adapts to your company's current needs

# How PART LIMS Supports You in Digital Lab Management

You can easily integrate PART LIMS into your ERP system SAP Business One as an additional, 100 percent SAP-certified module.

What this means for you:

- Successful onboarding **without much additional effort**
- The complexity of your IT landscape **is minimized**
- All applications are **guaranteed to be compatible**

The following functional areas can be managed in PART LIMS:





## Test Equipment

In this area of the LIMS module, you manage and monitor your test equipment, such as physical measuring devices and sensors.

- Check which test equipment and measuring devices are available
- Access serial numbers and other test equipment characteristics
- Assign the test equipment to the respective test steps
- Receive warnings when a piece of test equipment exceeds the calibration period

The screenshot shows the 'Prüfmittel' (Test Equipment) management interface. The form includes the following fields:

- Name: 1
- Artikelnummer: P01036
- Artikelname: Der Prüfgerät
- Standort: Nordhausen
- Prüfart: Labor Produktion Nordhausen
- Seriennummer: 1234571
- Datum der nächsten Prüfung: 27.06.2021
- Aktiv
- ist beweglich
- kann nur einen Wert je Arbeitsgang messen

Below the form is a table for 'Prüfgrößen' (Test Parameters):

#	Prüfgröße	Untere Grenze	Oberer Grenze	Einheit
1	Dichte		0,500	6,000 g/cm³

At the bottom right of the screen, there are buttons for 'Abbrechen' (Cancel) and 'Aktualisieren' (Refresh).



## Test Steps

Each test consists of a large number of individual steps. You define them and combine them into test processes here.

- Structure your test steps according to individual labs, testers, test equipment, data types, approval types, test locations, costs and test lots
- Add specific (including textual) characteristics and thresholds (such as for pH values) to be checked
- Assign measuring units as desired



## Test Plans

In PART LIMS, you work with test plans to define how the quality test of one or more objects should be carried out. You can select both the sequence of the test process and the specifications for test characteristics.

- Specify a test plan for each product with corresponding test methods and equipment
- Assign them to your customers
- Determine where in the product to take the sample
- Create audit trails that record which tests were performed when and the results
- Set the frequency of the test
- Assign a target value or upper and lower limits for quantitative characteristics
- Create test plans for your test equipment with any number of test steps

Auftragsnr.	Prüfdatum	Artikelnr.	Charge	Seriennr.	Auslöser	Belegnr.	Status	OK	Verfügbarkeit
2	13.04.2021	P01038	test1234		Manuell		Prüfung fehlgeschlagen	Nein	✓
12	11.05.2021	P01005	00001625		Produktion	22	Offen	Nein	✓
20	09.05.2021	P01003	20210509-TEST2		Wareneingang	52	Offen	Nein	✓
21	14.05.2021	P01005	00001632		Produktion	3000371	Offen	Nein	✓
22	12.05.2021	P01005	00001633		Produktion		Prüfung erfolgreich	Ja	✓
23	21.05.2021	P01005	00001634		Produktion		Prüfung erfolgreich	Ja	✓
24	24.05.2021	P01005	1009		Manuell		Offen	Nein	✓
25	24.05.2021	P01005	1009		Manuell		Offen	Nein	✓
26	24.05.2021	P01005	1010		Manuell		Offen	Nein	✓
27	25.05.2021	P01005	00001634		Produktion	3000373	Offen	Nein	✓
28	27.05.2021	P01005	00001634		Produktion		Offen	Nein	✓
29	25.05.2021	P01005	00001634		Produktion	3000373	Offen	Nein	✓
32	01.06.2021	P01005	00001633		Produktion		Offen	Nein	✓
42	02.06.2021	P01036		123456-i	Prüfmittel		Prüfung erfolgreich	Ja	✓
52	03.06.2021	P01036		123456-i	Prüfmittel		Prüfung erfolgreich	Ja	✓
62	03.06.2021	P01036		2	Prüfmittel		Offen	Nein	✓
72	16.06.2021	P01036		2	Prüfmittel		Offen	Nein	✓
82	18.06.2021	P01036		123457-i	Prüfmittel		Offen	Nein	✓
92	21.07.2021	9005690	99-2204		Manuell		Offen	Nein	✓
102	30.08.2021	P01005	4231431531		Manuell		Offen	Nein	✓



## Test Orders

With PART LIMS, you optimize the entire process of test orders in your lab. Within the software solution, your employees can create, assign and monitor test orders effortlessly.

- Create new test orders quickly and easily
- Have test orders created automatically upon goods receipt or when the production order is generated
- Track the status of your test orders and get feedback on them
- Change test orders, including sampling, on an order-by-order basis
- Don't release batches until they've been approved or block them if they fail the test

The screenshot displays the 'Prüfauftrag' (Test Order) form in the PART LIMS system. The form is organized into several sections:

- Header Information:** Includes 'Auftragsnr.' (93), 'Prüfauftragsstatus' (Offen), and 'Qualitätssicherung Status' (Offen). There are also checkboxes for 'Alle Prüfungen erfolgreich' and 'Auftrag bearbeiten'.
- Order Details:** Fields for 'Typ des Auslösers' (Produktion), 'Auslöser' (Produktion), and 'Belegnummer' (3000373). It also shows 'Artikelnummer' (PO1005), 'Artikelname' (PARTIOL), and 'Chargennummer' (00001634).
- Prüfer Information:** 'Prüfergruppe' (Wieblingen) and 'Vorangegangener Prüfauftrag' (36). A 'Zwischenbericht' button is visible.
- Prüfschritte (Test Steps):** A list of steps including 'qs1 - manuelle Erfassung (gut)', 'Wieblingen Test - Viskosität mPas (5,030)', and 'Wieblingen Test - Viskosität mPas'. Each step has a status icon (green checkmark, lock, and comment bubble).
- Test Configuration (Wieblingen Test - Viskosität mPas):**
  - Name:** Wieblingen Test
  - Typ:** Prüfung für Qualitätssicherung
  - Beschreibung:** Wieblingen Test
  - Prüfergruppe:** Wieblingen
  - Prüflos:** Prüflos 1
  - Prüfmittel:** Auslaufbecher 6mm OB0002, Prüfmittel Artikel: 9600002, Prüfmittel Seriennummer: OB0002, Prüfort: LBR0600
  - Prüfergebniseigenschaft:** Viskosität
  - Art der Wertermittlung:** Messung
  - Prüfgröße:** Viskosität
  - Name der Prüfgröße:** Viskosität mPas
  - Ergebniswert:** 5,173
  - Prüfrelevant:** (checked)
  - Einheit:** (empty)
  - Grenzwerte:** Unterer Grenzwert: 0,000, Sollwert: 5,000, Oberer Grenzwert: 9,000
- Buttons:** 'Prüfung abschließen' (Finish Test) and 'Abbrechen' (Cancel) buttons are located at the bottom right.





## Certificates and Reports

To demonstrate your quality assurance, PART LIMS allows you to generate certificates and reports based on your data.

- Generate detailed, multilingual reports and plant certificates to ensure comprehensive and transparent documentation
- Access test data and reports from anywhere
- Define custom layouts
- Use feedback data to evaluate suppliers

# Seamless Integration: Management of Test Equipment and Quality Assurance in Your ERP System

You already use SAP Business One and are now ready for a completely digital lab? Then PART LIMS is the ideal solution for you. You don't have to take any risks at all, as the software integrates seamlessly into the ERP system you're already using.


Have the confidence to take the next step towards digitalization in your lab. Our experience shows that optimized, efficient management of test equipment and digitalized quality assurance are the hallmarks of success for companies in the process industry.

Do you still have questions or are you interested in receiving a tailored offer?

[GET IN TOUCH](#)

## About PART

Quality and security – that's our promise. We deliver certified solutions in close cooperation with the industry leader SAP. We inspire trust and build mutually trusting partnerships for the long term. With a focus on fairness and sustainability, we work one-on-one with SMEs to ensure stable and profitable business development – that's what we understand by a win-win situation.

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