

LPTA²S

L&P Traceability And Analysis System

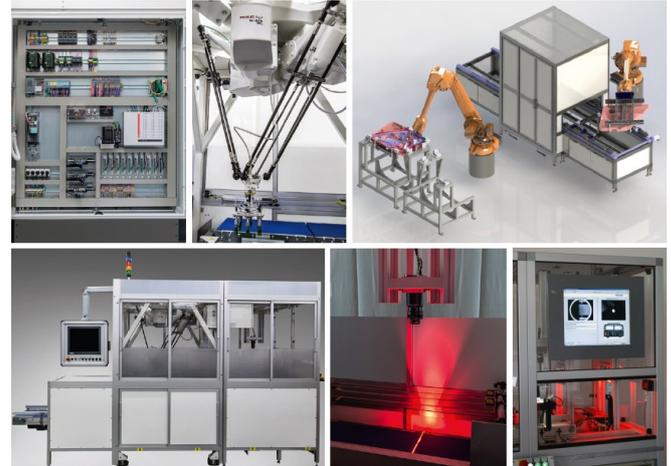
Increase the productivity of your manufacturing with LPTA²S!

With more than 30 years of experience in the construction of special machines and 15 years of experience in the programming of traceability systems, we at L&P know what is important in production optimization.

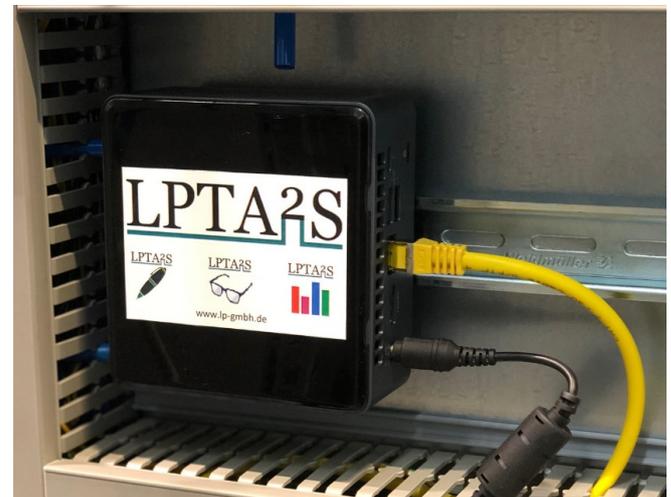
We have the know-how to achieve more productivity, transparency, quality and control in your production.

The highlights

- Simple and fast integration / connection of existing systems
- Connections to all common control types possible
- No intervention in the machine programming necessary
- Space-saving installation due to a powerful mini PC
- Easy implementation through intelligent and intuitive configuration
- Perform parameterization yourself if required to save costs
- Permanent monitoring of machine status and display of key production figures in real time (OEE, downtimes, cycle times, etc.)
- Detailed shift evaluations, e-mail and MSA reports
- Analysis of measured values, components and product defects with export function



Various end-of-line testers from L&P with LPTA²S connection



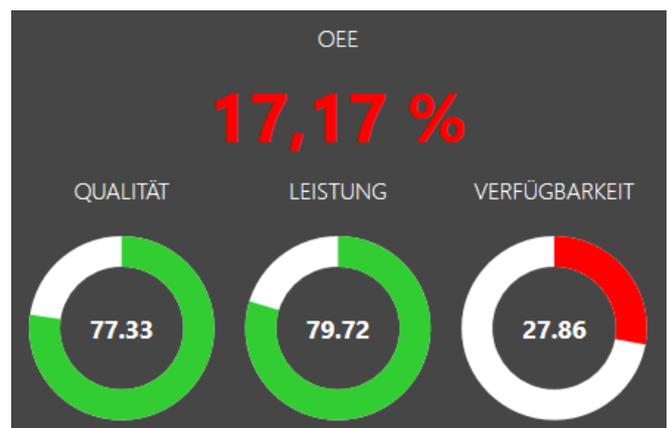
Mini PC with the complete software LPTA²S
 (Only required if no machine PC is available)

Significance OEE

The OEE-Value (**O**verall **E**quipment **E**ffectiveness) indicates to what percentage a machine is actually productive. It can be used to determine how much productivity is lost due to downtime, lack of process speed and scrap.

$$\text{OEE} = \text{Quality} \times \text{Performance} \times \text{Availability}$$

Bring the OEE value of each of your machines out of hiding. Rely on the expertise of L&P and take the step into the digital future with LPTA²S.



OEE view of LPTA²S_Analysis

SOFTWARE COMPONENTS



With the user friendly **LPTA²S_Editor**, you can perform the entire configuration for data acquisition yourself. All you need is basic knowledge of PLC programming.

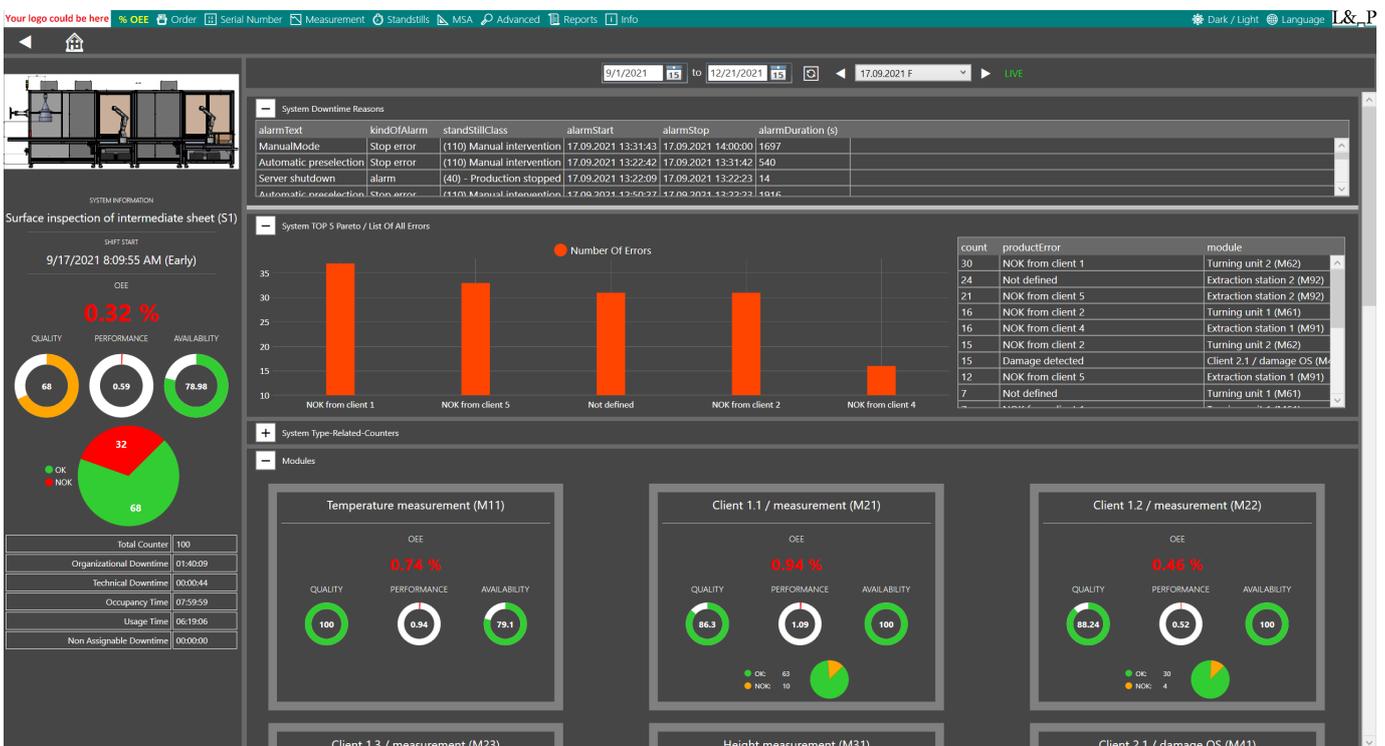


The **LPTA²S_Client** provides a live view of all important information about the productivity of the machines to the current shift.



The innovative **LPTA²S_Analysis** application allows you to analyze all recorded process and product data. Keep an overview of your machines and find the bottleneck in the process flow.

- OEE / AVAILABILITY / PERFORMANCE / QUALITY
- CAUSES OF DOWNTIME
- PARETO PRODUCT ERROR
- MSA REPORTS
- AUTOMATIC E-MAIL-REPORTS
- VISUALIZATION OF CYCLE/PROCESS TIMES
- FAULT MESSAGES
- MULTILINGUAL
- TYPE-DEPENDENT COUNTERS FOR SCRAP-PARTS/ REWORK



LPTA²S_Analysis, Machine-View

With the **LPTA²S_Analysis** application you can perform different types of analyses. For example, display all possible information (parts status, measured values, faults, installed components, etc.) for a specific part. Perform detailed analyses of standstills or link different conditions yourself, e.g. to find all NOK

Start an MSA test via the HMI panel and print the report as a PDF with one click using the Analysis app. Bring more quality into your production by this kind of automation and save a lot of work and time.

LPTA²S

Measurement System Analysis

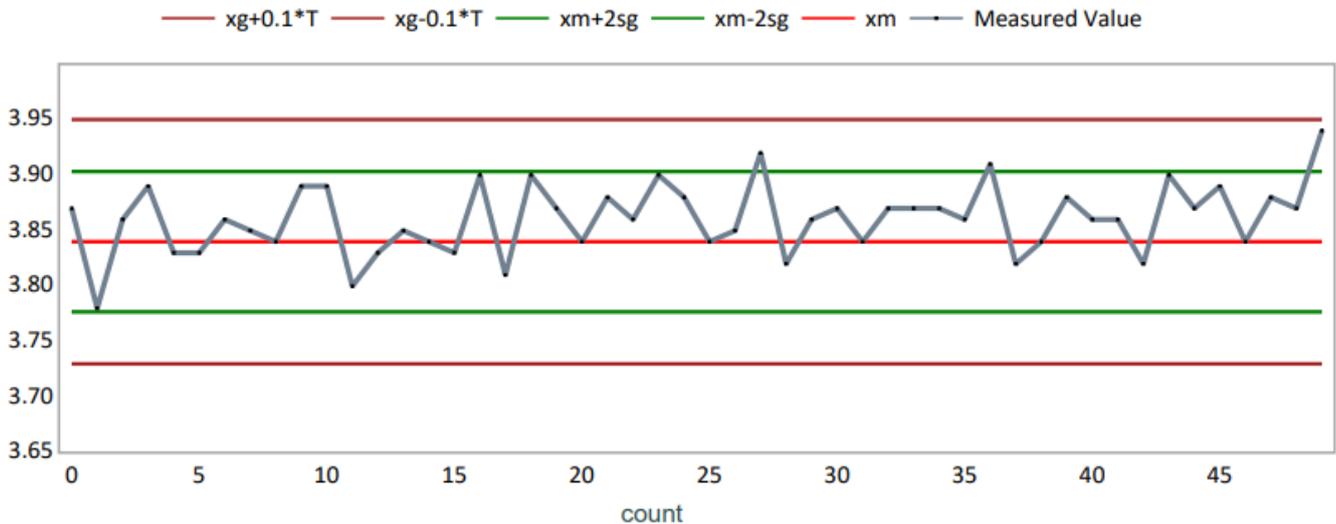


Your logo could be here

Hysteresis

Machine Name: S1 - Surface inspection of intermediate sheet Module Name: M11 - Temperature measurement

Test Reason: Acceptance Date: 11/11/2021 2:06:35 PM MSA Procedure: 1 Unit: ° Resolution: 0.01



Specification Values	Measurement Values	Statistic Values	Sys. Meas. Deviation
x_m : 3.84	x_{min} : 3.78	\bar{x}_g : 3.86	BIAS : 0.02
$x_m - 0.1 * T$: 3.73	x_{max} : 3.94	$\bar{x}_g - 2 * s_g$: 3.8	t : 4.61
$x_m + 0.1 * T$: 3.95	R : 0.16	$\bar{x}_g + 2 * s_g$: 3.92	
0.2 * T : 0.22	n_{ges} : 50	4 * s_g : 0.13	
T : 1.1		s_g : 0.03	

Minimum requirement for the test key figures: $c_g \geq 1,33$ $c_{gk} \geq 1,33$

Resolution in % from T = **0.91 %** (Sufficient if $\leq 5\%$!)

Measuring system capable for T to :

$$c_g = \frac{0,2 * T}{4 * s_g} = 1.74$$

$$c_{gk} = \frac{0,1 * T - |\bar{x}_g - x_m|}{2 * s_g} = 1.42$$

$T_{min/cg} = 0.84$
 $T_{min/cgk} = 1.05$
 $T_{max. Aufl.} = 0.2$

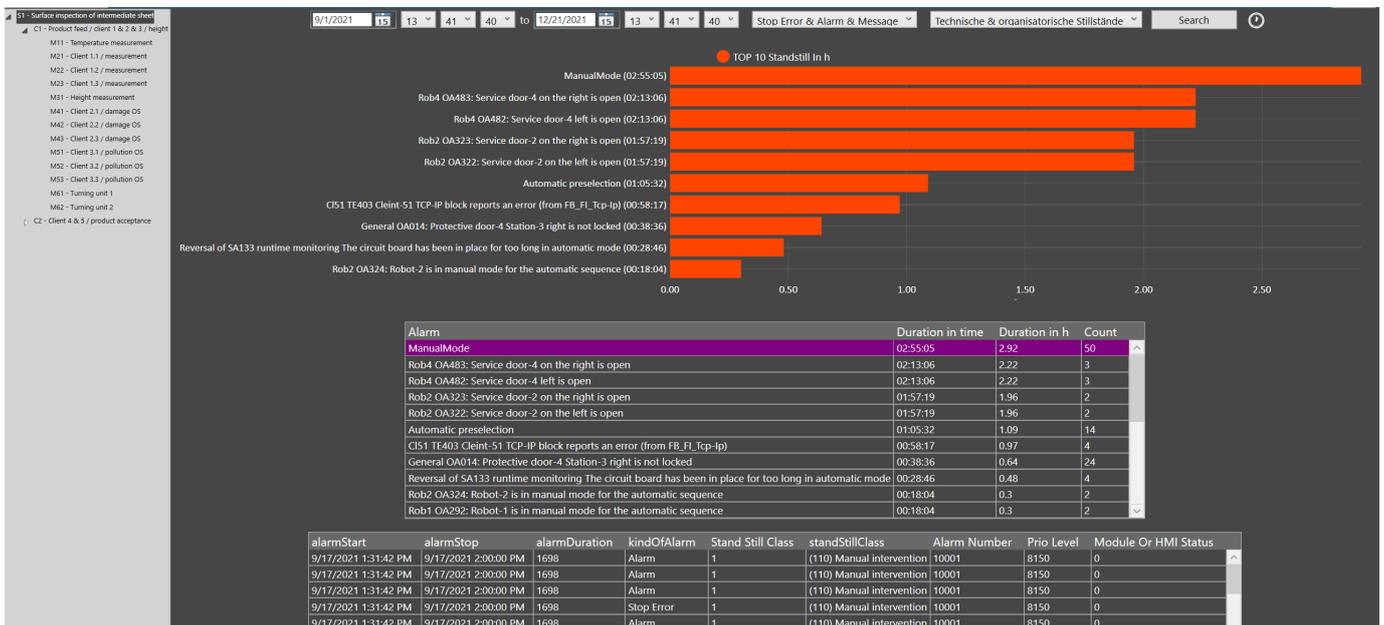


The measured value analysis shows up to 20 diagrams at once. With thousands of different measured values, you can analyze and recognize correlations more quickly.



LPTA²S_Analysis, Measured Analysis View

Find out where optimization is still needed with the detailed standstill analysis. Identify organizational and technical problems.



LPTA²S_Analysis, Standstill Analysis View

Credentials



For further information

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