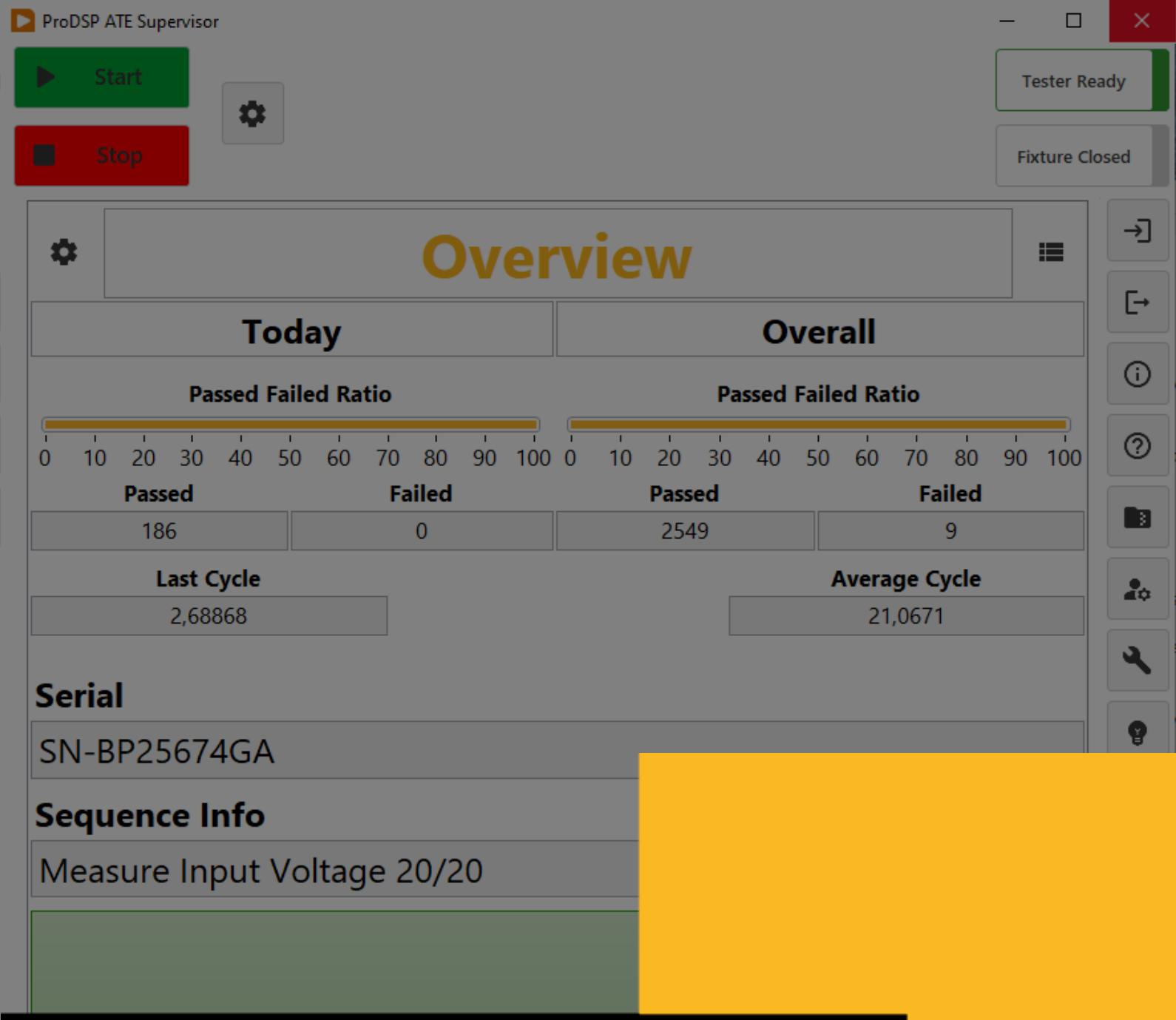


ProDSP ATE Supervisor

13.1.2026 v1.2

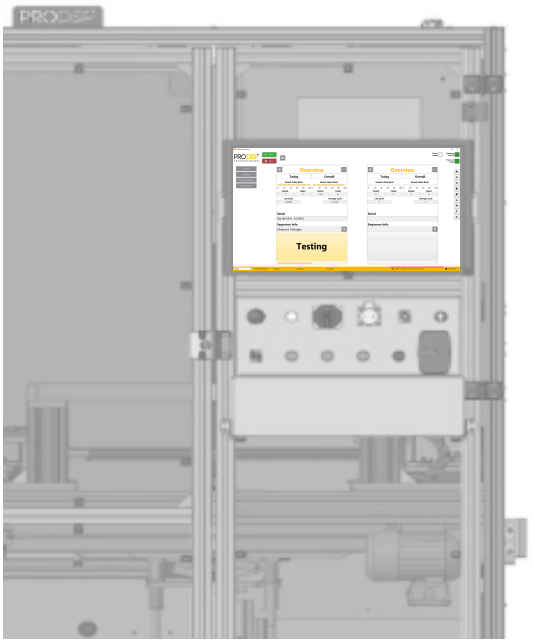
PRODSP TECHNOLOGIES

Features and Benefits

- **Plan.** Test-plan editor with multiple product types and product variants support. The online limit editor allows immediate implementation of STI changes.
- **Execute.** Standalone user interface with integrated sequence execution, user management, and localization features. Reduced training needs thanks to a standardized user interface.
- **Control.** Implementation of golden-sample and Jidoka rule supervision. Act before any production downtime.
- **Analyse.** Built-in database with analysis tools for traceability and MSA reporting. Worry-free auditing process with a few clicks.
- **Repeat.** Test configurations can be stored and retrieved at any time. Test plans can be distributed across multiple testers easily. Your ATE device can be shared between multiple projects without disruptions.

Description

The **ProDSP ATE Supervisor** software is a ready-to-use solution to **configure, control, and monitor your Automated Test Equipment** in a user-friendly environment.

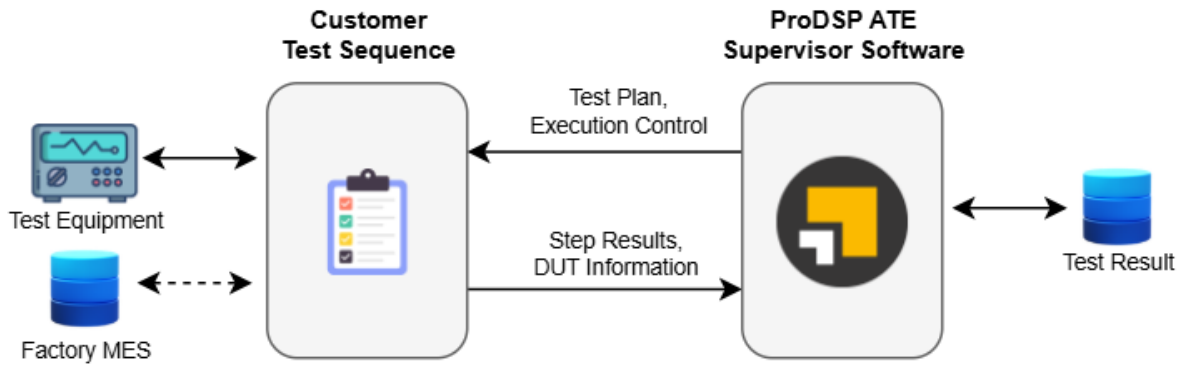


The software can be adapted to a wide range of test devices: it can be a single-seat manual fixture or a fully autonomous, multi-socket in-line handler. With our solution, you can increase your system flexibility to easily switch between testable DUT product types and variants. It helps to reduce your manufacturing process downtime by monitoring the key process indicators and detecting issues before they become failures. Users can also be notified in case of a required maintenance period.

Our test sequence framework (available in Python and NI TestStand) implements the tester control, reporting and monitoring tasks so you can focus on implementing the actual product test sequence. This helps reduce deployment time for our test engineer users.

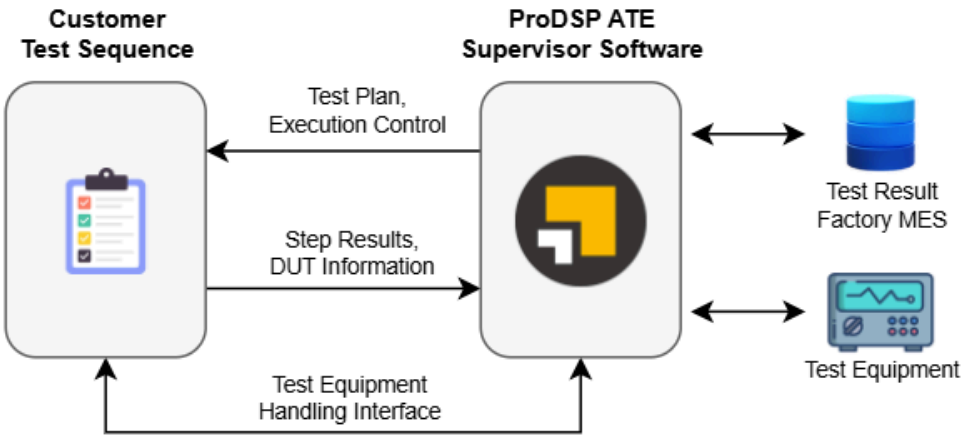
Overview

Our solution can be integrated with your ATE in a flexible way. You can choose to handle all your test equipments, MES/ERP and DUT communication within your sequence:



Option 1: Distributed

Or you have the possibility to integrate all the control tasks in our software with device plug-ins to get a more integrated, clean, and fully controlled solution:



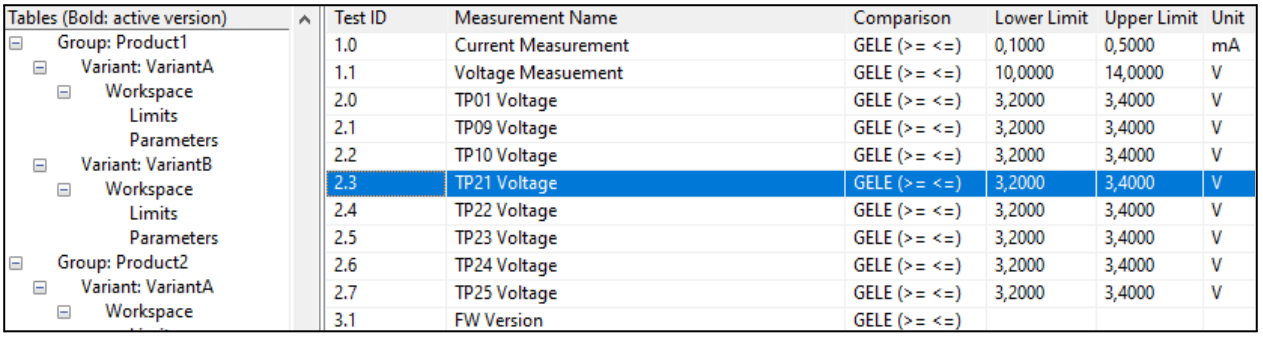
Option 2: Integrated

With either solution we are providing an API to control the ProDSP ATE Supervisor and access its data. We have a ready-to-use library written in **Python** and also in **LabVIEW** (NI TestStand). For the common test equipment control plug-ins are available on request.

Main Functionalities

Test Plan Editor

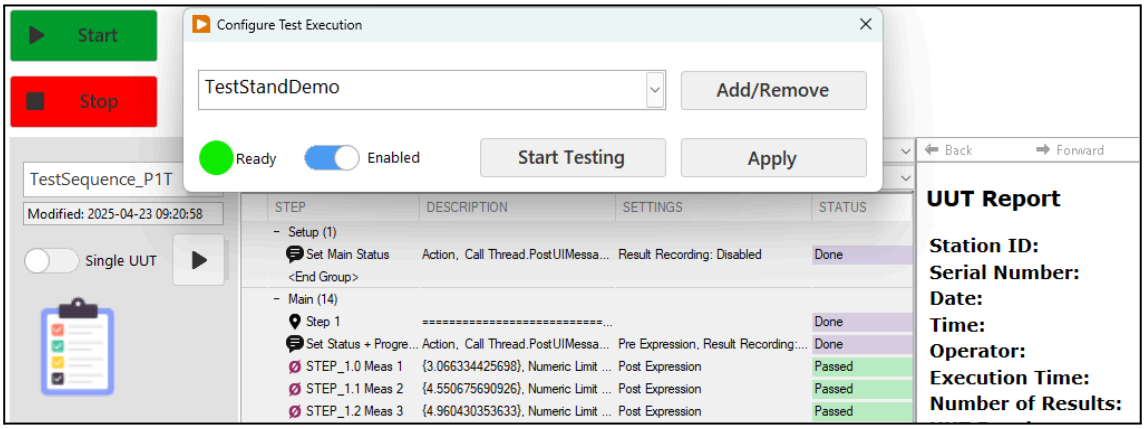
- Create Test Plans, add Products and Product variants.
- Edit limits and parameters. Changes can be applied immediately.
- All changes are stored, traceable. Test configurations can be reproduced at any time.
- Test Plans can be shared, synchronized between testers.



Test ID	Measurement Name	Comparison	Lower Limit	Upper Limit	Unit
1.0	Current Measurement	GELE (>= <=)	0,1000	0,5000	mA
1.1	Voltage Measuement	GELE (>= <=)	10,0000	14,0000	V
2.0	TP01 Voltage	GELE (>= <=)	3,2000	3,4000	V
2.1	TP09 Voltage	GELE (>= <=)	3,2000	3,4000	V
2.2	TP10 Voltage	GELE (>= <=)	3,2000	3,4000	V
2.3	TP21 Voltage	GELE (>= <=)	3,2000	3,4000	V
2.4	TP22 Voltage	GELE (>= <=)	3,2000	3,4000	V
2.5	TP23 Voltage	GELE (>= <=)	3,2000	3,4000	V
2.6	TP24 Voltage	GELE (>= <=)	3,2000	3,4000	V
2.7	TP25 Voltage	GELE (>= <=)	3,2000	3,4000	V
3.1	FW Version	GELE (>= <=)			

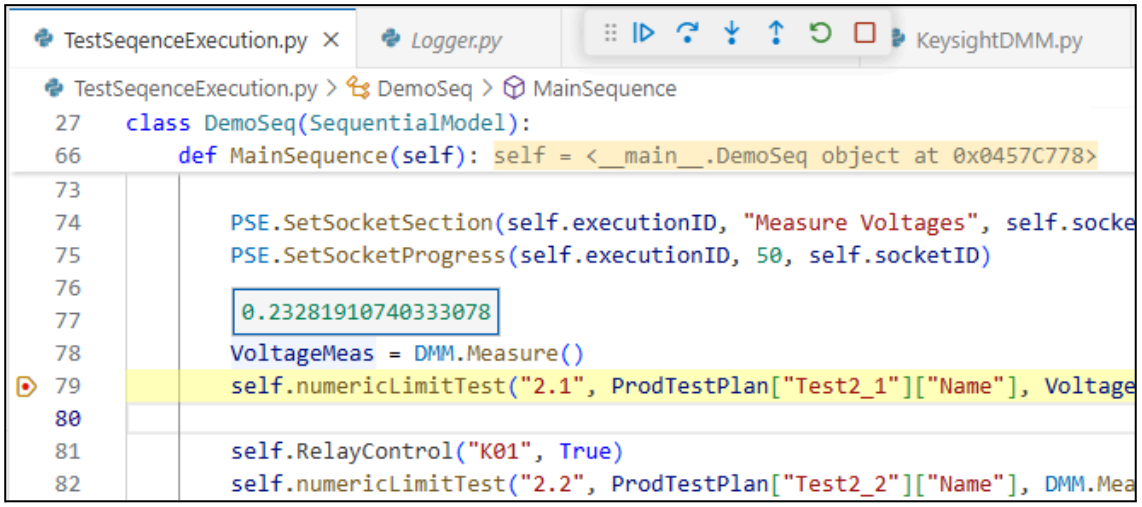
Integrated Sequence Execution

- Built-in sequence execution option for NI TestStand (Runtime licence required), and for Python.
- Sequences can be configured, stored, and selected. Sequences can be assigned to products.
- The appropriate sequence can be launched from the main UI.



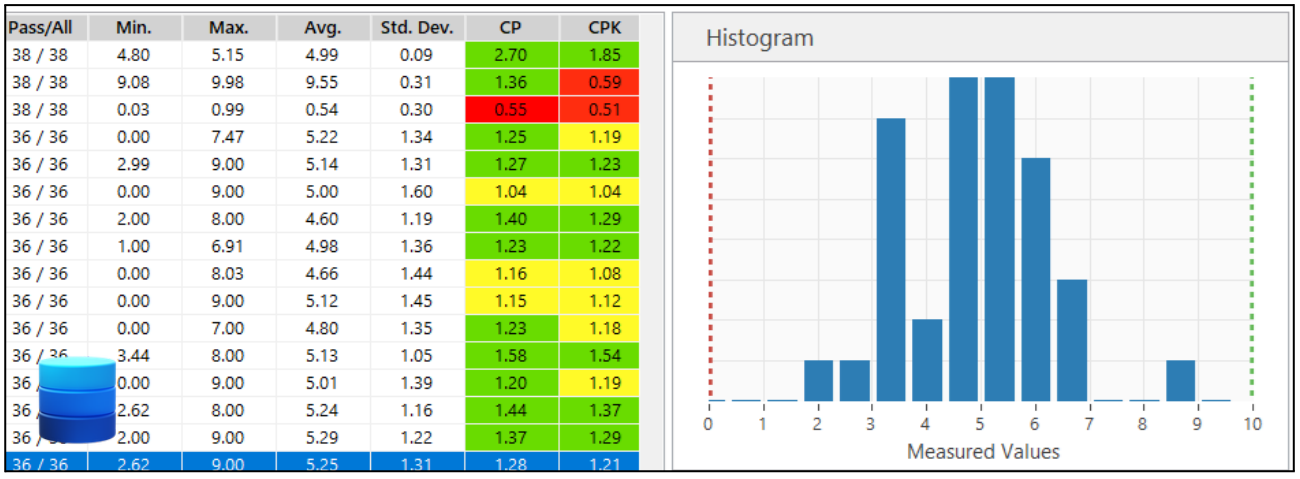
Advanced Sequence Debugging

- Sequences can be executed from native development environments also.
- They can be stopped, executed step-by-step, and modified.
- The development environment can be running on an external PC, thanks to the TCP/IP API interface.



Statistical Analysis

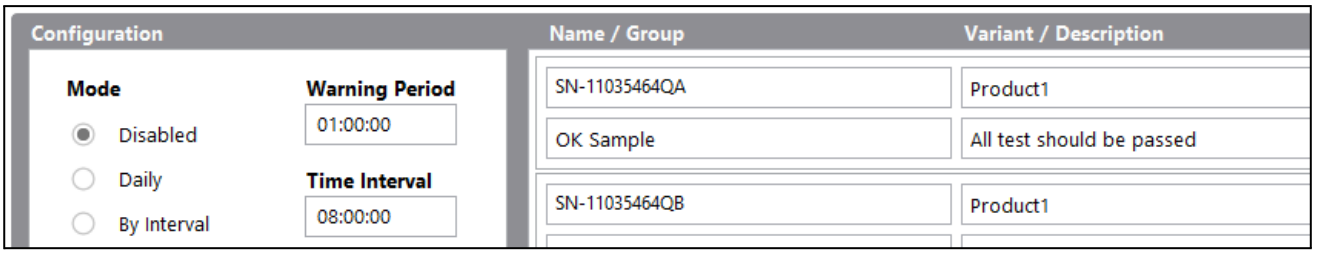
- All measurement data, and test results can be stored, and retrieved.
- Pass/Failed ratio, TOP Fail indicators calculation for all seats/jigs
- Automatic statistical evaluation of key performance indicators.
- MSA Analysis reports with a few clicks: CPK, R&R.
- See our Statistical Tool brochure for further information.



Pass/All	Min.	Max.	Avg.	Std. Dev.	CP	CPK
38 / 38	4.80	5.15	4.99	0.09	2.70	1.85
38 / 38	9.08	9.98	9.55	0.31	1.36	0.59
38 / 38	0.03	0.99	0.54	0.30	0.55	0.51
36 / 36	0.00	7.47	5.22	1.34	1.25	1.19
36 / 36	2.99	9.00	5.14	1.31	1.27	1.23
36 / 36	0.00	9.00	5.00	1.60	1.04	1.04
36 / 36	2.00	8.00	4.60	1.19	1.40	1.29
36 / 36	1.00	6.91	4.98	1.36	1.23	1.22
36 / 36	0.00	8.03	4.66	1.44	1.16	1.08
36 / 36	0.00	9.00	5.12	1.45	1.15	1.12
36 / 36	0.00	7.00	4.80	1.35	1.23	1.18
36 / 36	3.44	8.00	5.13	1.05	1.58	1.54
36 / 36	0.00	9.00	5.01	1.39	1.20	1.19
36 / 36	2.62	8.00	5.24	1.16	1.44	1.37
36 / 36	2.00	9.00	5.29	1.22	1.37	1.29
36 / 36	2.62	9.00	5.25	1.31	1.28	1.21

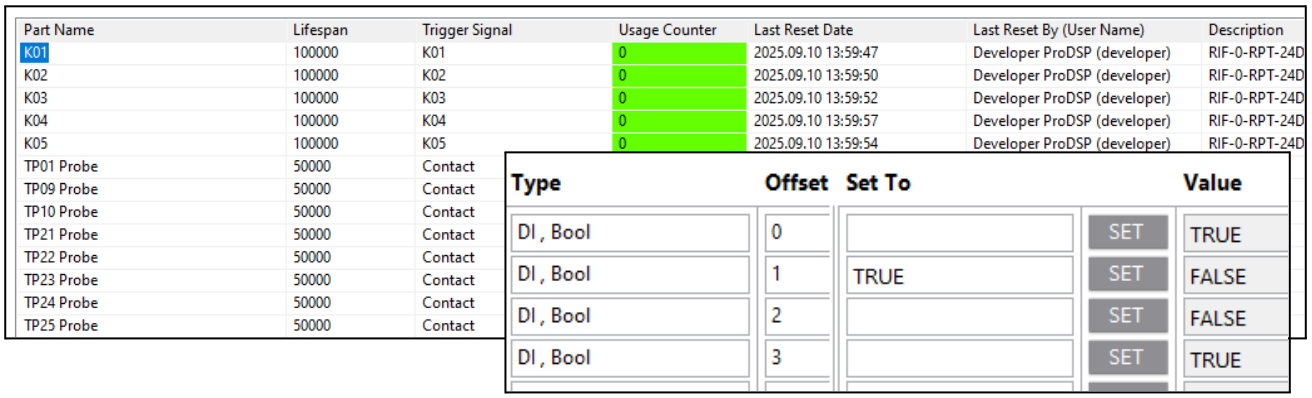
Test Control

- Define OK/NOK samples and golden sample rules.
- Apply Jidoka measures: disable test jig at abnormalities.



Maintenance

- Ware parts can be tracked in the system. Maintenance periods can be configured and users will be notified in advance.
- All IOs can be monitored and tested manually.



Device Plug-ins

- Integrated Test Equipment control (Option 2), DUT communication, or external database connectivity is achievable via user plug-ins.
- Device status and error log can be monitored, connectivity parameters can be configured.
- Soft panel for manual control and debug.
- Ready-to-use plug-ins are available on request.