

▶ Start



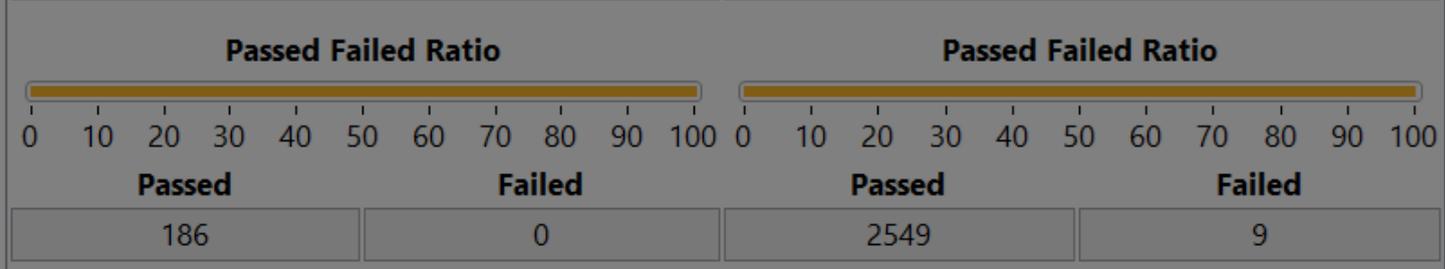
Tester Ready

■ Stop

Fixture Closed

Overview

Today Overall



Last Cycle	Average Cycle
2,68868	21,0671

Serial

SN-BP25674GA

Sequence Info

Measure Input Voltage 20/20



ProDSP ATE Supervisor

13.1.2026 v1.2



Features and Benefits

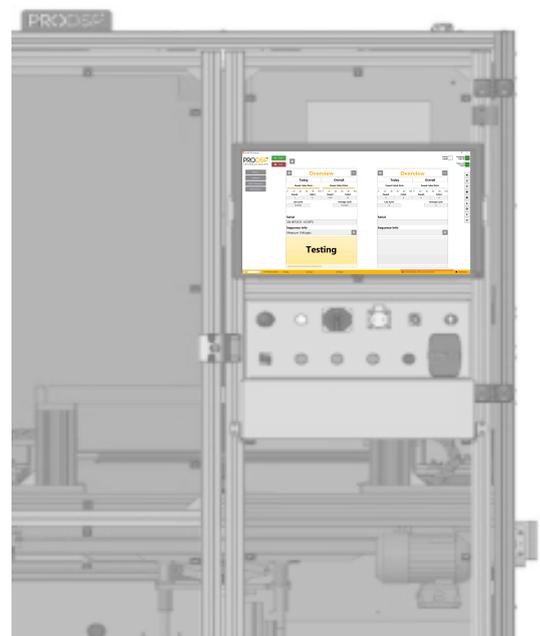
- **Plan.** Test-plan editor with multiple product types and product variants support. The online limit editor allows immediate implementation of STI changes.
- **Execute.** Standalone user interface with integrated sequence execution, user management, and localization features. Reduced training needs 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.

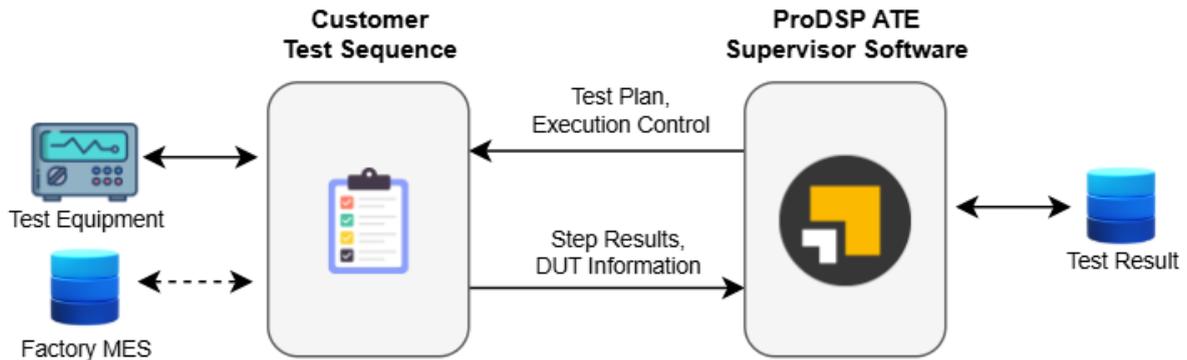
The software can be adapted to a wide range of test devices: it can be a single-seat manual fixture or a fully autonomous, multi-socket in-line handler. With our solution, you can increase your system flexibility to easily switch between testable DUT product types and variants. It helps to reduce your 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.



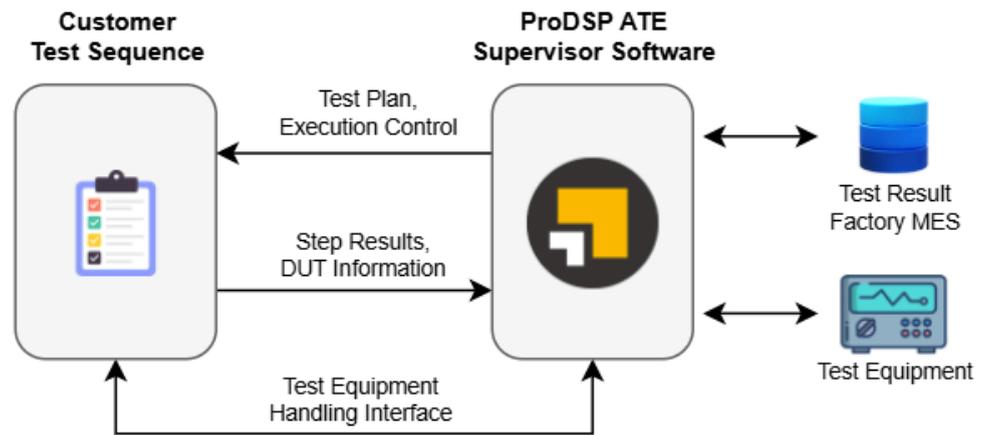
Overview

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.

Tables (Bold: active version)	Test ID	Measurement Name	Comparison	Lower Limit	Upper Limit	Unit
Group: Product1	1.0	Current Measurement	GELE (>= <=)	0,1000	0,5000	mA
Variant: VariantA	1.1	Voltage Measurement	GELE (>= <=)	10,0000	14,0000	V
Workspace	2.0	TP01 Voltage	GELE (>= <=)	3,2000	3,4000	V
Limits	2.1	TP09 Voltage	GELE (>= <=)	3,2000	3,4000	V
Parameters	2.2	TP10 Voltage	GELE (>= <=)	3,2000	3,4000	V
Variant: VariantB	2.3	TP21 Voltage	GELE (>= <=)	3,2000	3,4000	V
Workspace	2.4	TP22 Voltage	GELE (>= <=)	3,2000	3,4000	V
Limits	2.5	TP23 Voltage	GELE (>= <=)	3,2000	3,4000	V
Parameters	2.6	TP24 Voltage	GELE (>= <=)	3,2000	3,4000	V
Group: Product2	2.7	TP25 Voltage	GELE (>= <=)	3,2000	3,4000	V
Variant: VariantA	3.1	FW Version	GELE (>= <=)			
Workspace						

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.

STEP	DESCRIPTION	SETTINGS	STATUS
- Setup (1)			
Set Main Status	Action, Call Thread.PostUIMess...	Result Recording: Disabled	Done
<End Group>			
- Main (14)			
Step 1		Done
Set Status + Progre...	Action, Call Thread.PostUIMess...	Pre Expression, Result Recording:...	Done
STEP_1.0 Meas 1	(3.066334425698), Numeric Limit ...	Post Expression	Passed
STEP_1.1 Meas 2	(4.550675690926), Numeric Limit ...	Post Expression	Passed
STEP_1.2 Meas 3	(4.960430353633), Numeric Limit ...	Post Expression	Passed

Advanced Sequence Debugging

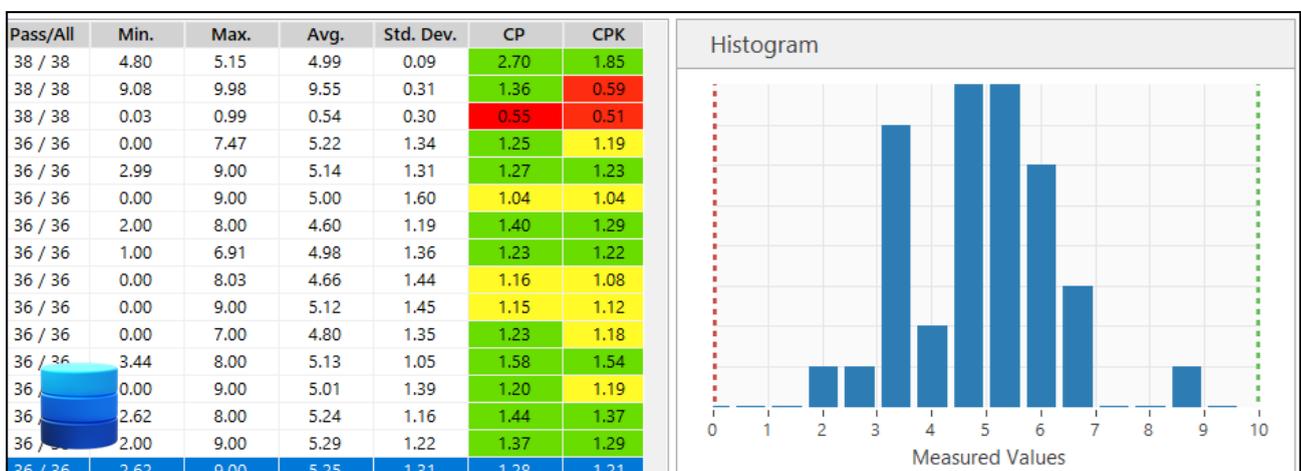
- Sequences can be executed from native development environments also.
- They can be stopped, executed step-by-step, and modified.
- The development environment can be running on an external PC, thanks to the TCP/IP API interface.

```

TestSequenceExecution.py x Logger.py KeysightDMM.py
TestSequenceExecution.py > DemoSeq > MainSequence
27 class DemoSeq(SequentialModel):
66     def MainSequence(self): self = <__main__.DemoSeq object at 0x0457C778>
73
74     PSE.SetSocketSection(self.executionID, "Measure Voltages", self.socketID)
75     PSE.SetSocketProgress(self.executionID, 50, self.socketID)
76
77     0.23281910740333078
78     VoltageMeas = DMM.Measure()
79     self.numericLimitTest("2.1", ProdTestPlan["Test2_1"]["Name"], VoltageMeas)
80
81     self.RelayControl("K01", True)
82     self.numericLimitTest("2.2", ProdTestPlan["Test2_2"]["Name"], DMM.Measure())
    
```

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.



Test Control

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

Configuration		Name / Group	Variant / Description
Mode <input checked="" type="radio"/> Disabled <input type="radio"/> Daily <input type="radio"/> By Interval	Warning Period <input type="text" value="01:00:00"/>	SN-11035464QA	Product1
	Time Interval <input type="text" value="08:00:00"/>	OK Sample	All test should be passed
		SN-11035464QB	Product1

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.

Part Name	Lifespan	Trigger Signal	Usage Counter	Last Reset Date	Last Reset By (User Name)	Description
K01	100000	K01	0	2025.09.10 13:59:47	Developer ProDSP (developer)	RIF-0-RPT-24D
K02	100000	K02	0	2025.09.10 13:59:50	Developer ProDSP (developer)	RIF-0-RPT-24D
K03	100000	K03	0	2025.09.10 13:59:52	Developer ProDSP (developer)	RIF-0-RPT-24D
K04	100000	K04	0	2025.09.10 13:59:57	Developer ProDSP (developer)	RIF-0-RPT-24D
K05	100000	K05	0	2025.09.10 13:59:54	Developer ProDSP (developer)	RIF-0-RPT-24D
TP01 Probe	50000	Contact				
TP09 Probe	50000	Contact				
TP10 Probe	50000	Contact				
TP21 Probe	50000	Contact				
TP22 Probe	50000	Contact				
TP23 Probe	50000	Contact				
TP24 Probe	50000	Contact				
TP25 Probe	50000	Contact				

Type	Offset	Set To	Value
DI, Bool	0		SET TRUE
DI, Bool	1	TRUE	SET FALSE
DI, Bool	2		SET FALSE
DI, Bool	3		SET TRUE

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.

CAN UDS Diag Keysight 34470A Modbus Client Climate Chamber 	Read Value <input type="text" value="0,232819"/> <input type="button" value="Measure"/>
	Select Measurement <input type="text" value="Voltage DC"/> <input type="button" value="Set Conf"/>
	Voltage Parameters Autorange <input type="checkbox"/> False Manual Range (V) <input type="text" value="10 V"/>