

JUMO LOGOSCREEN 700

TUS/SAT field testing device

TUS and SAT reporting made easy – JUMO LOGOSCREEN 700 as a game changer



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INFO

Product video



Product page



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Reliable data recording in heat treatment processes

As essential standards in thermoprocess technology, AMS2750 and CQI-9 guarantee quality and safety in the aviation and automotive industries. Whereas AMS2750 regulates pyrometric control for aviation, CQI-9 provides specific guidelines for the automotive industry. The innovative and highly-scalable JUMO LOGOSCREEN 700 paperless recorder supports both standards by integrating temperature uniformity measurements in the furnace space (TUS) and system accuracy tests (SAT). Its compact design and universal carrying case allow the device to be used as a mobile field tester.

→ Experience how simple and reliable the monitoring of heat treatment processes can be!

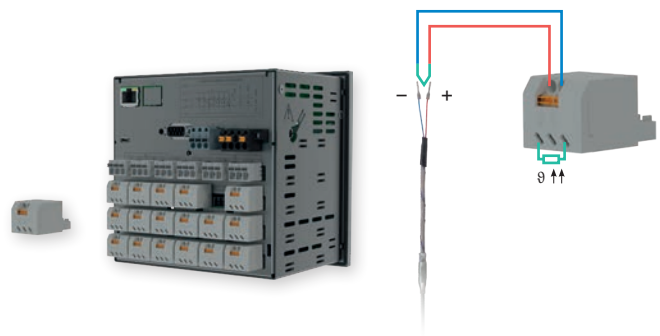


Key features at a glance

- Data-compliant recording according to AMS2750 and CQI
- Contains accredited calibration certificate including correction factors
- Flexible application due to compact, portable carrying case with up to 18 measuring channels



- Excellent measuring accuracy <math>< 0.6\text{ }^\circ\text{C}</math> for thermocouples (type K, N, J, S, and R) and RTD temperature probes
- Specifically developed connection terminal for stable and highly accurate thermocouple measurements with integrated cold junction



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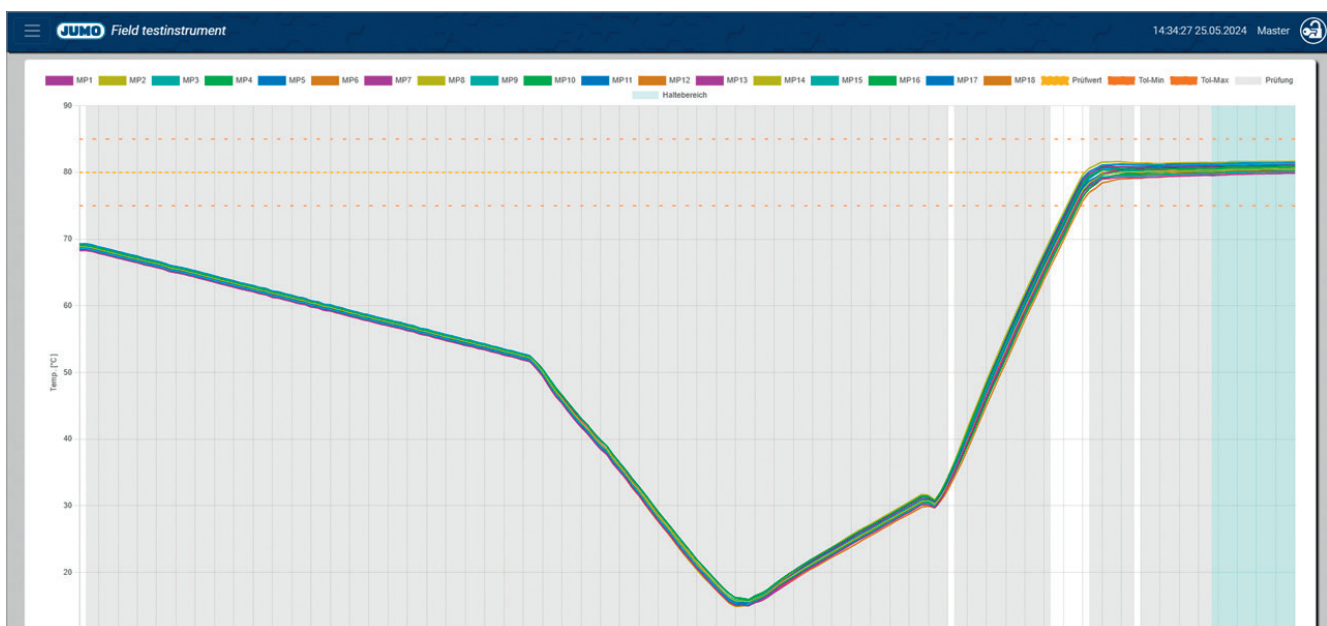
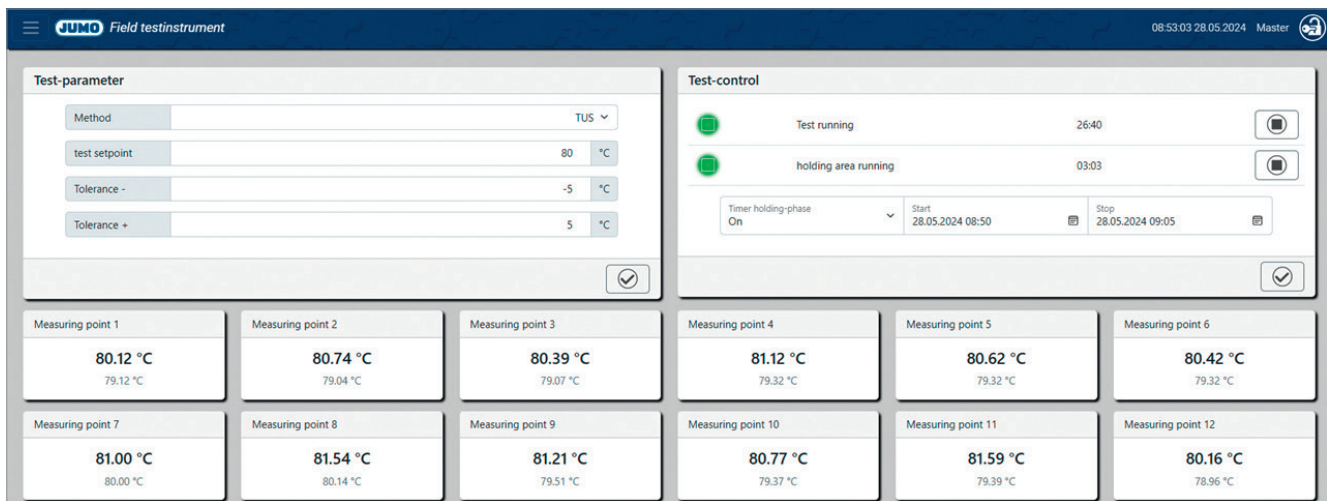
TUS/SAT field testing device



Clear benefits

Browser-based implementation of the TUS measurement

The browser-based display enables the TUS test to be carried out easily and intuitively. All process-relevant data is visualized on one page. All common browsers can be used.



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Clear benefits

Fully automated TUS report with automatic evaluation of the heat treatment process

The automatic creation and evaluation (passed/failed) of the TUS measurement saves the inspector an enormous amount of time when auditing and filing the measurement results. Furthermore, the test result is protected against manipulation and falsification.

JUMO GmbH & Co. KG Moritz-Juchheim-Str. 1 36039 Fulda, Germany		TUS-Prüfbericht gem. AMS2750 Rev. G Temperature Uniformity Survey Report according to AMS2750 Rev. G		Phone: +49 661 6003-9135 E-Mail: service@jumo.net Internet: www.jumo.net		
Berichts-Nr.: Report-no.:	A-2024-05-25_V02	Datum der Prüfung: Date of the test:	25.05.2024	Seite: Page:	3/16	
Auswertung Haltebereich 80 °C Evaluation of soak range 80 °C						
Prüfwert Testvalue	80 °C					
Toleranz Tolerance	-5 / 5 K					
Sensor / Messstelle Sensor / measuring point	Nicht korrigierter Messwert Uncorrected value		Korrekturfaktor Prüfgerät Correction factor test instrument	Korrekturfaktor Sensor Correction factor sensor	Korrigierter Messwert Corrected value	
	min	max			min	max
MP1	79,0	79,2	0.5	0.5	80,00	80,20
MP2	79,0	79,2	1	0.7	80,70	80,90
MP3	79,0	79,2	0.52	0.8	80,32	80,52
MP4	79,3	79,5	0.8	1	81,10	81,30
MP5	79,4	79,6	0.2	1.1	80,70	80,90
MP6	79,4	79,5	0.3	0.8	80,50	80,60
Start Haltebereich Start soak area			25.05.2024 / 14:46:13			
Ende Haltebereich End soak area			25.05.2024 / 14:58:22			
Ist-Haltezeit Actual soak time			12min / 9s			
Ausfälle TUS-Sensoren Failures of TUS sensors			nein / no			
	Min. Messwert min. value	Max. Messwert max. value	Differenz difference		Bandbreite tolerance band	
zul. Temperaturtoleranz allowed temp. tolerance	75 °C	85 °C	-5 °C	5 °C	10 K	
vorh. Temperaturtoleranz available temp. tolerance	80.00 °C	81.80 °C	0 °C	1.80 °C	1.80 K	
Prüfsensor / Messstelle Test sensor / measuring point	MP1	MP8				
Prüfergebnis Test result						
bestanden passed	<input checked="" type="checkbox"/>					
nicht bestanden failed	<input type="checkbox"/>					

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Clear benefits

Browser-based implementation of the SAT measurement

The great advantage of the SAT test is the flexible and easy-to-use input of test-relevant data via browser (e.g. via notebook or tablet). This is a real advantage, especially in unfavorable installation situations for the temperature probe.

The screenshot displays the JUMO Field testinstrument web interface. At the top, the header shows the JUMO logo, the text "Field testinstrument", the time "16:59:38 24.05.2024", and a lock icon. The main interface is divided into several sections:

- Test-parameter:** Includes a "Method" dropdown set to "SAT", "Tolerance -" set to "-5 °C", and "Tolerance +" set to "5 °C".
- Test-control:** Shows a green status indicator, "Test running", and the time "10:34".
- Measuring point 1:** Displays a current temperature of 80.32 °C (78.82 °C) and a setpoint of 80 °C. The display value is 77.9 °C and the display offset is 0.8 °C.
- Measuring point 2:** Displays a current temperature of 80.44 °C (78.74 °C) and a setpoint of 80 °C. The display value is 77.4 °C and the display offset is 0.5 °C.
- Measuring point 3:** Displays a current temperature of 80.00 °C (78.68 °C) and a setpoint of 80 °C. The display value is 81.4 °C and the display offset is 0.1 °C.
- Measuring point 4:** Displays a current temperature of 80.73 °C (78.93 °C) and a setpoint of 80 °C. The display value is 78.6 °C and the display offset is 1.2 °C.

A "Saved!" notification is visible over the measuring points. Each measuring point card has a checkmark icon at the bottom right.

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Clear benefits

Fully automated SAT report with automatic evaluation of the heat treatment process

Up to 18 SAT measurements can be carried out simultaneously and displayed in a report. The creation takes place fully automatically as a PDF file.

JUMO GmbH & Co. KG Moritz-Juchheim-Str. 1 36039 Fulda, Germany		SAT-Prüfbericht gem. CQI-9 Version 4 System Accuracy Test Report according to CQI-9 Version 4				Phone: +49 661 6003-9135 E-Mail: service@jumo.net Internet: www.jumo.net				
Berichts-Nr.: A-2024-05-24_V01 Report-no.:		Datum der Prüfung: 24.05.2024 Date of the test:				Seite: 5/6 Page:				
Messstelle Measuring point						Messstelle 17				
Sollwert Setpoint						80 °C				
Toleranz Tolerance						-5 / 5 K				
Anzeige-Wert Display-value	Anzeige-Offset Display-offset	Korrigierter Anzeigewert Corrected Display-value	Nicht korrigierter Messwert Rekorder Uncorrected value recorder	Korrekturfaktor Sensor Correction factor sensor	Korrekturfaktor Rekorder Correction factor recorder	Korrigierter Messwert Rekorder Corrected value	Differenz difference	Systemzeit System time	Prüf-ergebnis Test result	
[°C]	[°C]	[°C]	[°C]	[K]	[K]	[°C]	[°C]	[hh:mm:ss]		
76,90	0,50	77,40	80,27	0,50	0,70	81,47	-4,07	16:02:46	bestanden / passed	
Messstelle Measuring point						Messstelle 18				
Sollwert Setpoint						80 °C				
Toleranz Tolerance						-5 / 5 K				
Anzeige-Wert Display-value	Anzeige-Offset Display-offset	Korrigierter Anzeigewert Corrected Display-value	Nicht korrigierter Messwert Rekorder Uncorrected value recorder	Korrekturfaktor Sensor Correction factor sensor	Korrekturfaktor Rekorder Correction factor recorder	Korrigierter Messwert Rekorder Corrected value	Differenz difference	Systemzeit System time	Prüf-ergebnis Test result	
[°C]	[°C]	[°C]	[°C]	[K]	[K]	[°C]	[°C]	[hh:mm:ss]		
81,40	0,27	81,67	73,79	0,30	0,90	74,99	6,68	16:04:33	nicht bestanden / failed	