

Portable high-precision calibrator and tester

for mechanical and electrical measurements



TRANS CAL 7281

Performance profile

- Device test / Strain gauge simulator
- Reference measurement chain
- Sensor test



Device test/ Strain gauge simulator

Infinitely adjustable simulation values:
up to ± 50 mV/V, up to 10 VDC
Measurement: U_{supply} up to 10 VDC



Reference measurement chain

combined with a reference sensor



Sensor test

R_i , R_a , Shunt, R_{iso}

Supported sensors



$\pm 10V$

Precise calibration in one hand

Our mobile high-precision calibrator and testing device is the smart, robust and traceable solution for your calibration requirements. With TRANS CAL 7281, you or our experts can perform mobile, on-site calibrations with high accuracy and without dismantling.

DAkkS calibration

satisfies the highest standards and requirements. We or our partners are accredited in accordance with DIN 17025.



Smart, robust, traceable and precise ...

- Linearity $< \pm 0.001$ % F.S.
- Automatic sensor recognition burster TEDS
- Practical calibration software
- DAkkS calibration certificate on request



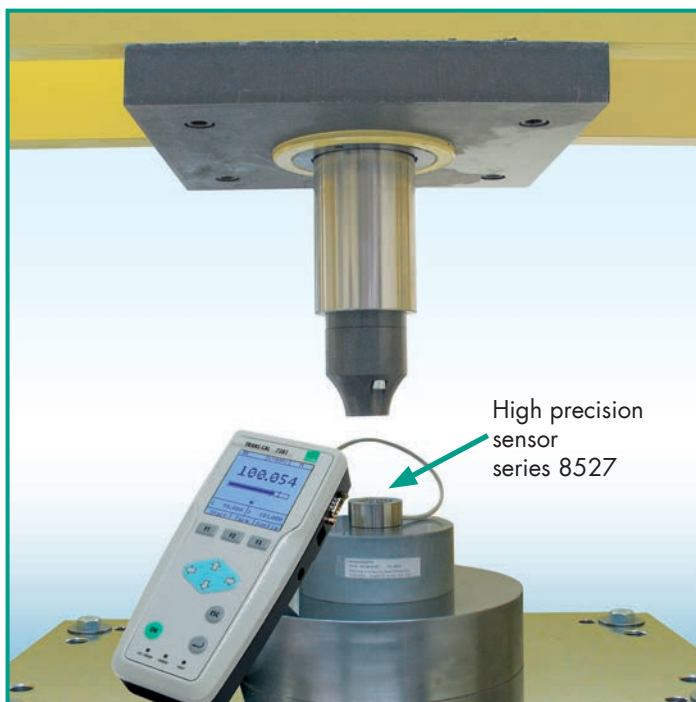
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Messen Prüfen Automatisieren www.mts.ch

Precision force check of electrical, mechanical or hydraulic presses

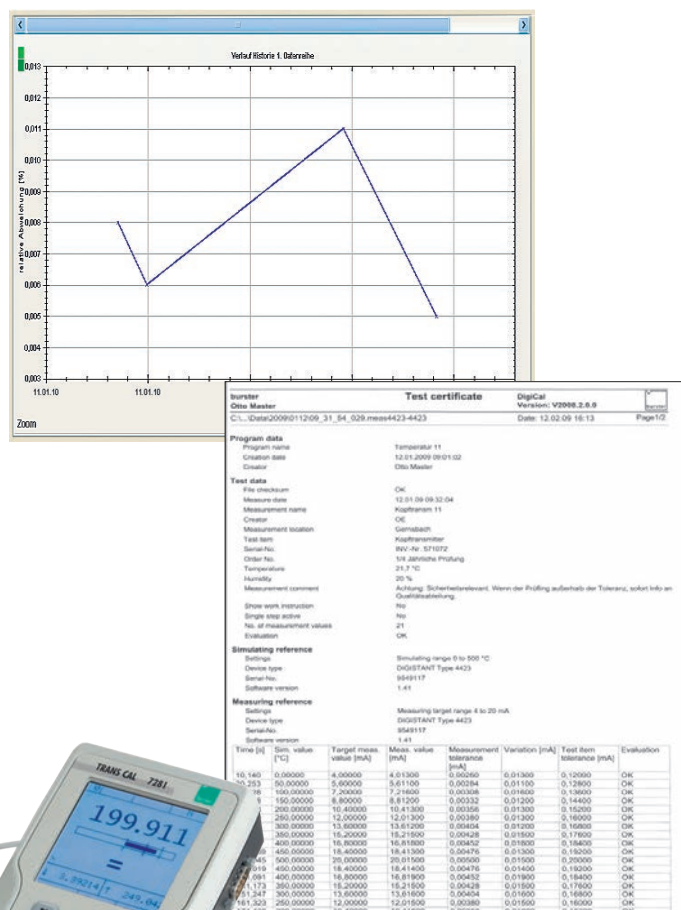
- Maximum precision and traceability even under on-site conditions.
- Designed for industrial use also in harsh environments (excellent display backlighting, rugged case, battery-supplied amongst other features).
- OK/NOK evaluation of measurement values, data readout of actual values and evaluation results from the data logger using DigiCal software.
- Reference load cell in line with the flux of force ensures optimum comparative measurements in difficult-to-access locations. Sensor and device hardware can be checked separately.



DigiCal testing and calibration software: creating your own test certificate

Export in Excel for further processing

Measurement actual value in N	Measurement tolerance in N	Evaluation
0.00	0.0011	OK
1667.10	0.1677	OK
3333.60	0.3345	OK
5000.20	0.5011	OK



Quality testing for torque wrenches

- Regular testing involves measuring the release torque (click wrench). TRANS CAL 7281 also detects the release peak values at a measurement rate of $\leq 1200/s$. Multiple measurements/evaluations easily possible for each set release torque.
- Stores logged measurement values or quality-relevant data, which can be read using the optional DigiCal calibration software (statistical analysis MIN/MAX – MEAN VALUE – STANDARD DEVIATION).
- Measurement values from up to four sets of manually recorded data can be displayed in parallel as a table and graph. This can be useful, for instance, as an easy way to compare and document release torques of torque wrenches.

Torque sensor series 8628

