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

Supported sensors
- ±10 V
- Poti

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.

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_s, R_o, Shunt, R_{SO}

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

Smart, robust, traceable and precise ...
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

<table>
<thead>
<tr>
<th>Measurement actual value in N</th>
<th>Measurement tolerance in N</th>
<th>Evaluation</th>
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<tr>
<td>0.00</td>
<td>0.0011</td>
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</tr>
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<td>5000.20</td>
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</tr>
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</table>

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 ≤ 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.