

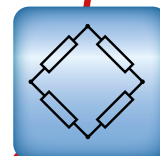
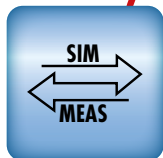
Mobile High-Precision Calibrator and Testing Device

For mechanical and electrical measurements

TRANS CAL 7281

Device test / Strain gauge simulator

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

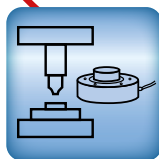


Sensor test

R_V , R_o , Shunt, R_{ISO}

Reference measurement chain

(combined with a reference sensor)



NEW burster TEDS

- Supported sensors: Strain gauge/normalized signal ± 5 V, ± 10 V, potentiometric sensors
- Device test: Strain gauge simulator up to ± 50 mV/V
- Easy adjustment through burster TEDS
- Excellent linearity with non-linearity $< \pm 0.001$ %
- Storage of up to 16 measurement programs
- Data logger for up to 30,000 measurements
- Factory calibration certificate and/or German accredited DAKkS calibration certificate optionally available for the instrument / entire measurement chain

Application

The multipurpose digital indicator TRANS CAL 7281 can be used wherever there is a need to perform high-precision, on-site calibrations of sensing components used in equipment such as presses, torque tools or pressure-regulating systems. An optional factory calibration certificate or German-accredited DAKkS calibration certificate can be provided when the measurement device needs to be used as a reference. This provides a quick and cost-effective way of assessing a system with traceable documentation of measurement results. If a reference measurement cannot be made because the sensor location is difficult to access, it is still possible to test the zero point, the input, output and isolation resistance as well as the calibrating offset of the fitted sensor. It is also possible to check the indicating device by measuring the excitation voltage and simulating the characteristic values (mV/V or V) of the sensor used.

The instrument is used in metrology institutes, calibration laboratories and in industry in the fields of quality assurance, facility commissioning and system monitoring.

Areas of use:

- ▶ Checking hydraulic presses
- ▶ Reference measurements in assembly lines
- ▶ Test of robotic pressing forces
- ▶ Calibrating test equipment
- ▶ Calibrating of high-precision measuring devices

Description

The TRANS CAL 7281 can be fitted with standard or rechargeable batteries for portable use or can run from an external power supply. Combined with a reference sensor the testing device provides a high-precision reference measurement chain e.g. for force measurements, but is also ideal for service engineers as a tool for locating faults in devices or sensors.

The choice of sensors includes strain gauge, normalized-signal ± 5 V / ± 10 V and potentiometric sensors. The LCD graphics display shows the live measurement value and the corresponding bar indicator. It also supports display functions such as data-logger, tared value in % and upper/lower limit for the comparator with simultaneous indicator ($< = >$) of the evaluation result.

For routine testing and also fault-locating tasks, the tester makes it really simple to measure isolation resistances and input/output resistances. The equipment test function is a quick and easy way to verify that the display device complies with the characteristic value, offering strain-gauge simulation of up to ± 50 mV/V or output of a normalized signal of up to 10 V. German-accredited DAKkS calibration certificates or factory calibration certificates are optionally available. The DigiCal configuration and data-acquisition software provides useful display and reporting functions.