



T1000 Handy Strain Gage Transducer Indicator



Features:

- Strain gage base transducer indicator
- 6 digital resolution
- Half and full bridge circuitry
- Built-in half bridge
- Automatic zero-balancing and calibration
- Actual load calibration or sensitivity registration calibration capability
- Lead wire line resistance completion setting for 4-wire Full bridges
- Enable reading in over 70 engineering unit
- Friendly intuitive, menu-driven operations
- Keypad operable
- Rugged, handy and lightweight
- Max / Min Peak Hold function
- Operates on 2 pieces of AA size dry cell or AC power adaptor
- Option 16-Bits analog output
- Option EIA-RS-232C or datum link

Applications:

- Strain Gage type Transducer Indicator
- Load Cell Indicator
- Force Indicator
- Torque Indicator
- Pressure Indicator
- Micro-Resistance Indicator
- Semiconductor Strain Gage Indicator
- Strain/Stress Analysis
- Material Test
- Material Elasticity Indicator

Description:

T1000 Strain Gage Transducer Indicator is an economical instrument with high accuracy and multiple functions.

It is a Strain Gage Transducer Indicator and also function as a Strain Gage Indicator.

As a Strain Gage Transducer Indicator, it can support 2 types of bridges. While if used as a Strain Gage Transducer Indicator, there are 24 bits A/D converts to make the measurement.





T1000 Handy Strain Gage Transducer Indicator

Specification:

• Hardware Specifications

All specifications nominal or typical at +23° C unless otherwise noted

▪ Inputs

Highly reliable terminal accept independent bridge inputs.

Accommodates 16-30 AWG

(1.5 to 0.14 mm diameter) wire.

(Option) D-Sub 9-pin terminal accept independent bridge or transducer inputs.

▪ Bridge Configurations

Full-, and half- bridge circuits.

Internal bridge completion provided for half- or full-bridge.

• Display

Full dot-matrix structure with 1 Row × 8 characters dots FSTN positive, gray translucence LCD with backlight. Display update is once per second.

• Data Conversion

24-Bits high-resolution sigma-delta converter.

60 Hz and 50 Hz noise rejection.

• Measurable Range

± 0.500 to 10.000 mV/V

• Accuracy

± 0.05% of reading ± 3 counts.

• Balance

Single key operation to initiate automatic software balance.

• Bridge Excitation

1.25 VDC ± 0.04%.

• Option Analog Output

16-Bits DAC, Output 1.25 VDC ± 1.25V,

Data rate 1 / 4.5 / 10 Hz.

• Option Communication Interface

EIA-RS-232C Serial Bus with D-type connector.

Used for data and firmware transferring.

• Calibration

Shunt calibration across bridge arm to simulate 1mV/V $\mu\epsilon$ (± 0.1%).

Remote calibration supported via accessible switch contacts at input female D-sub.

Lead wire line resistance completion setting for 3 wire half- bridge or 4 wire full-bridge.

• Power Requirement

AA size dry cell × 2 or Optional AC-Power Adaptor (PN: T1000-ADP).

• Dimension & Weight

▪ 6.3" × 3.4" × 1.2" (160 mm X 85 mm X 30 mm).

▪ 0.65 Lb (280g) without batteries.

• Operational Environment

▪ Operating temperature: -10° C ~ 50° C.

▪ Storage temperature: -15° C ~ 55° C.

▪ Humidity: Below 95% RH, non-condensing.

• Firmware Features

▪ Display Update Rate: 1 readings per second.

▪ Scaling

Automatic calculation of mV/V.

Linear scaling for other engineering units

• Units

Weight, Force, Pressure, Torque, Length, Accelerator, Angle, Temperature, Resistance, Strain, Stress .

▪ Bridge Types

• Undefined full-bridge.

• Undefined half-bridge; quarter-bridge.

▪ Bridge Balance

• Automatic.

• Manual offset adjustment.

• Disabled.

• T1000 Data Logger RS-232

▪ Connect to maximum 8 units T1000.

▪ EIA-RS-232C datum link.

▪ Real Time Chart.

▪ Save Data File to Excel *.csv format.

▪ Free operating software.