

Strain gauge, hand-held measuring instrument



Description

The E3906 is an economical handheld measuring instrument. The freely scalable LCD-display has 4½ digits and can be used for strain gauge signals with 0,35 – 3,5 mV/V.

The compact handheld measuring instrument is highly flexible in application.

Commercial external accessible batteries or accu as well as a plug power pack with integrated accu charging function can be used alternatively.

The power saving mode with timer function switches off the instrument automatically after 15 min.

An integrated maximum value memory and a signal inverse function can be turned on and off at any time by a key switch. The status is indicated by LED's on the keys.

Another key switch turns on the 100% calibration control made of the sensor, thus the E3906 can simply be in-calibrated to a sensor and the calibration can be checked at any time.

Features

- Display and decimal digit freely scalable
- Mains-, battery-, accu operation
- Disconnection after 15 min
- Calibration control switch
- Maximum value memory
- Signal conversion switch
- Integrated accu charger
- 4½ digit LCD-display
- Simplest calibration
- SUB-D15-connector for loadcell

Applications

- Measurements and control instruments
- Instrument manufacturing
- Machine equipment
- Building of fixtures and special machinery manufacturing
- Calibration service

Model: E3906

Technical data

| Model | | E3906 |
|---|--|--|
| Output | | |
| - Display | | 4½ digit LCD-display |
| - Accuracy | | 0.2% of F.S. ± 3 digits |
| Input | | |
| - Signal | | 0...14 mV |
| - Sensor supply | | 4 VDC, max. 15 mA |
| - Limit frequency | | 4 Hz (3 dB); |
| Setting | | Through DIP-switches and potentiometer |
| Power requirement/operating time | | with batteries, 4xMicro 750 mAh: > 40h with batteries: > 50 h |
| Nominal temperature range | | +15°C ... +35°C |
| Service temperature range | | +5°C ... +45°C |
| Storage temperature range | | -10°C ... +70°C |
| Protection type (acc. to EN 60 529/IEC 529) | | IP 40 |
| Electrical connection | | Force transducer: SUB-D15-socket |
| Housing | | |
| - Material | | Plastic |
| - Dimensions | | 80 x 125 x 40 mm |
| Weight | | 250 g |
| Rise time maximum value memory | | 250 ms –3 dB |
| Reading rate | | 2.5 s |
| Indication extent | | 0 - ±19999 |
| Bridge resistance of SG* | | 350 ...2000 Ω |
| Input sensitivity | | 0.35 ...3.5 mV/V |
| Accessories | | Accumulators Battery charger (additional charge) |

*) SG = strain gauge