Messtechnik • Prozessinstrumentierung • Prüf- und Kalibriertechnik
Measurement • Process Instrumentation • Test and Calibration Equipment

ICS SCHNEIDER MESSTECHNIK

# Strain gauge weighing electronics
# With multi-function display
# Model E1932

WIKA
Part of your business

## Applications

- Precision scales
- Industrial scales
- Scales for forklift trucks, cabs and cranes
- Container and platform scales

## Special features

- 6-digit liquid crystal display (LCD) with backlighting
- Extensive functions easy to set on the instrument or via PC
- International approval for applications requiring verified measurements OIML, NTEP
- AC, DC (DC 7 ... 24 V) operating on (rechargeable) battery power (DC 4.8 ... 24 V) – ideal for a number of mobile applications
- High ingress protection, IP65



**Strain gauge weighing electronics, model E1932**

## Description

The weighing electronics of model E1932 offer a combination of ultimate precision and cost efficiency. They are ideally suited for mobile applications such as scales for forklifts, cabs and cranes, for platform scales as well as OEM applications.

With a rugged case and the various possibilities of voltage supply, the E1932 is the ideal partner for simple weighing applications up to application in difficult, industrial operating conditions.

Ultra-flat, digital weighing electronics with a front panel made of stainless steel are also available. This model can also be delivered with an IP65 case made of stainless steel for mounting on a wall or desktop.

A continuous operation up to 75 hours is possible in rechargeable battery mode. The instrument is set and adjusted using the keyboard via the integrated optical interface or PC software. All settings can be saved and transferred to another instrument. Up to 10 linearisation points can be used.

**Option:**
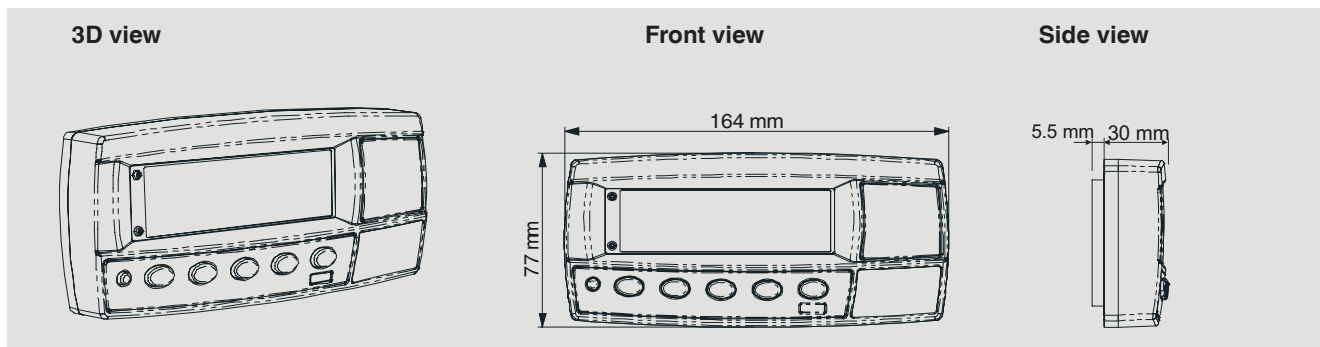4 … 20 mA/DC 0 … 10 V input

## Specifications

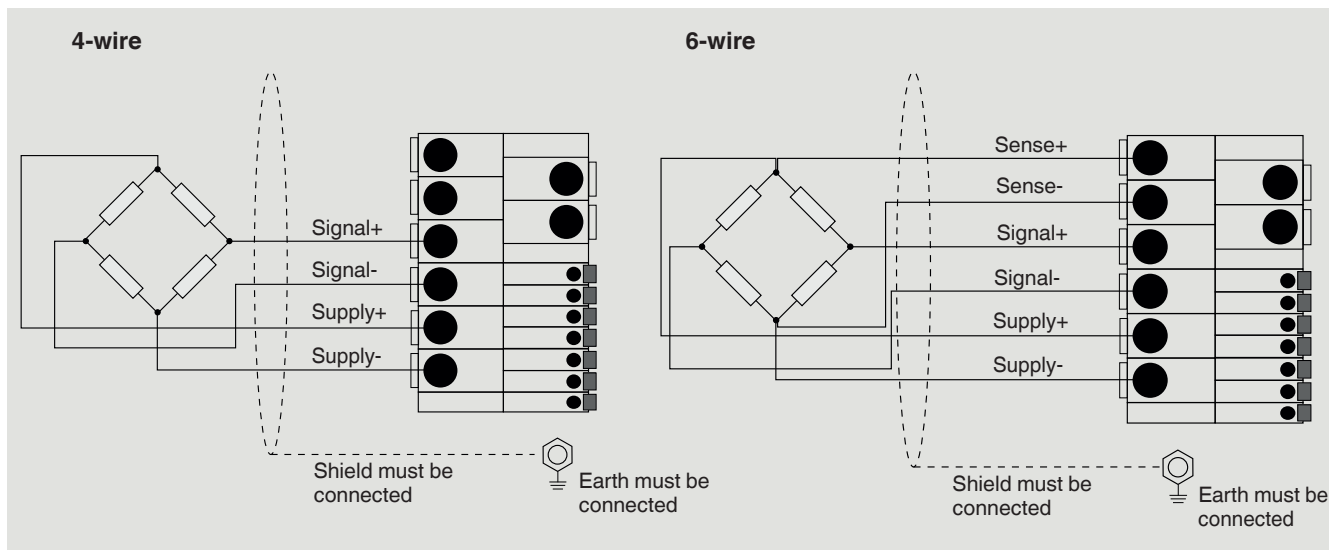| Model E1932 | |
|---|---|
| **Measuring range** | Measuring span: 0.1 mV/V to 3.0 mV/V nominal weight<br>Zero point: adjustable from ±2 % to ±100 % nominal weight<br>Tare: max. ±2 mV/V |
| **Display** | 6-digit LC display, 20 mm high<br>LED backlighting<br>Units and auxiliary display |
| **Sensor supply** | DC 5 V for up to 4 x 350 or 8 x 700 Ohm load cells<br>(4-wire or 6-wire and shield) |
| **Max. load cell resistance** | 3,500 Ω (commercial 4 x 350 Ω, non-commercial 8 x 350 Ω) |
| **Accuracy** | Resolution of 60,000 d, minimum 0.25 µV/division |
| **Linearisation** | Number of linearisation steps: 10 |
| **Service temperature range** | -10 … +50 °C |
| **Interface** | Infrared data transfer with rin-LINK cable<br>Optional: Connection cable for USB or RS-232 interface |
| **Output signal (option)** | 2 insulated transistor outputs are possible (max. DC 50 V / 300 mA)<br>RS-232 interface: automatic transfer, network or printer<br>Transmission rate: 240, 4,800 or 9,600 baud |
| **Digital input (optional)** | 1 programmable user input |
| **Battery-buffered clock/calendar (optional)** | Battery life of at least 10 years |
| **Resolution** | 24-bit A/D converter |
| **Sampling rate** | 20 Hz |
| **Supply voltage**<br>■ Standard<br>■ Option | DC 7 ... 24 V, 4, 8, 9, 6, 12 and 24 V batteries (max. 2.5 VA)<br>Power supply unit: AC 110/240 V 50/60 Hz in, DC 12 V 1.5 A out<br>Battery: 4 x AA batteries (alkaline or NiMH rechargeable batteries, NiCad)<br>12 V battery (rechargeable NiMH battery) |
| **Response time** | The response time changes with setting the digital filtering<br>Running averaging adjustable from 0.1 to 4.0 s |
| **Ingress protection** | IP65 if installed in the control cabinet |
| **Interference emission** | EN 61326-1 for industrial areas |
| **Immunity** | EN 61326-1 for industrial areas |
| **Relative humidity** | max. 90 % r. h., non-condensing |
| **Approvals** | 4,000 d @0.8 uV/d NMI (S-420)<br>OIML R76<br>10,000d III/III L NTEP 08-072 A1<br>FCC, CE, C-Tick |
| **Weight** | Basic weighing electronics: approx. 0.25 kg<br>Weighing electronics for control cabinet installation: approx. 0.4 kg |

## Operation

Setting and operating the display is either menu-driven via the front buttons or possible using a PC and the optical interface.

## Dimensions in mm

| 3D view | Front view | Side view |
|---|---|---|

Front view: 164 mm (width), 77 mm (height)

Side view: 5.5 mm, 30 mm

## Pin assignment

**4-wire**

Signal+
Signal-
Supply+
Supply-

Shield must be connected

Earth must be connected

**6-wire**

Sense+
Sense-
Signal+
Signal-
Supply+
Supply-

Shield must be connected

Earth must be connected

## Accessories

- ABS desktop case with battery compartment (IP54) for installation on a desktop, wall or post
- ABS desktop case, waterproof (IP65), mains operation, for installation on a desktop, wall or post
- Clamp for installation on a wall or post, combined with ABS desktop case
- ABS desktop case with rechargeable batteries (IP54), 4 x AA 2.5 Ah, incl. power supply unit
- ABS desktop case with pack of rechargeable batteries (IP65) NiMH 2.5 Ah, incl. power supply unit
- Protective PVC cover, transparent, button operation possible, 10-pack
- Input card 4 ... 20 mA / DC 0 ... 10 V for sensors with 4 ... 20 mA / DC 0 ... 10 V output
- Cable, serial RS-232, Opto-Link per SUB-D9
- Cable, serial, Opto-Link per USB, with USB driver CD
- Stainless steel case, enclosing case IP65 (without foot)
- PC software
- Analogue output card 4 ... 20 mA / DC 0 ... 10 V connection to RS-232 interface
- Installation on a desktop or wall (foot)
- Stand installation clamp for ABS desktop cases

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