

ACT20P
ACT20P-BRIDGE-S

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The ACT20P bridge converts bridge measurement signals into standard signals. A push button is used to adjust to the load cells.

The bridge-measuring transformer can supply up to 4 x 350 Ω.

This device can carry out simple tare calibrations via a separate input for an external button or PLC outputs. The 6-wire connection mechanism and the very high accuracy (0.05% of the measuring range's end value) make it possible to evaluate the measurement very precisely.

The simple and secure on-site calibration uses the push-buttons under the hinged front panel.

Features:

- 3-way isolation
- Supply for measuring bridges up to 4 x 350 Ω
- Simple calibration of the tare weight using external button or PLC input
- Input and output ranges adjustable via DIP switch
- Intelligent pluggable connection method

General ordering data

| | |
|------------|------------------------------------|
| Type | ACT20P-BRIDGE-S |
| Order No. | 1067250000 |
| Version | ACT20P, Measuring bridge converter |
| GTIN (EAN) | 4032248820856 |
| Qty. | 1 pc(s). |

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Technische Daten

Dimensions and weights

| | | | |
|--------|----------|------------|---------|
| Length | 119.2 mm | Width | 22.5 mm |
| Height | 113.6 mm | Net weight | 156.9 g |

Temperatures

| | | | |
|---------------------|-----------------------------|-----------------------|-----------------|
| Humidity | 10...90 % (no condensation) | Operating temperature | -40 °C...+70 °C |
| Storage temperature | -40 °C...+85 °C | | |

Probability of failure

| | |
|------|-----------|
| MTTF | 543 Years |
|------|-----------|

Input

| | | | |
|-----------------------|--|-------------------------|--|
| Sensor supply | 120 mA @ 10 V (= 4 x 350 Ω bridge resistors) | Supply voltage | 10...60 V DC |
| Type | Resistance measuring bridge | Input measurement range | ± 10 mV / ± 20 mV / ± 30 mV / ± 50 mV (adjustable) |
| Bridge supply voltage | 5 V or 10 V | Bridge sensitivity | 1.0 mV / V to 5.0 mV / V |
| Input resistance | > 1 MΩ | Sensor | Resistance measuring bridge |

Output

| | | | |
|------------------------|---|------------------------|-------------------------|
| Type | Voltage and current output (configurable) | load impedance voltage | 600 Ω |
| load impedance current | ≤ 600 Ω | Output voltage, note | 0 ... 11 V (adjustable) |
| Output current | 0...22 mA (adjustable) | | |

General data

| | | | |
|-------------------------|----------------------|--------------------|------------------------------------|
| Configuration | DIP switch | Linearity | Typically ± 0.05 % of signal range |
| Long-term drift | 0.1 % / 10.000 h | Mounting rail | TS 35 |
| Power consumption | 3 W @ 24 V DC | Repeat accuracy | ± 0.05% of signal range |
| Step response time | < 400 ms (10...90 %) | Supply voltage | 10...60 V DC |
| Temperature coefficient | typ. 0.005 % / °C | Type of connection | Screw connection |

Insulation coordination

| | | | |
|------------------------|---|---------------------------|----------------------------------|
| EMC standards | EN 61326 | Impulse withstand voltage | 4 kV (1.2/50 μs) |
| Insulation voltage | 5.7 kV (input / output, input / supply) | Pollution severity | 2 |
| Rated voltage | 300 V _{eff} | Standards | DIN EN 61010-1, DIN EN 61000-4-2 |
| Surge voltage category | III | | |

Classifications

| | | | |
|------------|-------------|------------|-------------|
| ETIM 3.0 | EC002479 | eClass 5.1 | 27-21-01-07 |
| eClass 6.2 | 27-21-01-20 | eClass 7.1 | 27-21-01-20 |

Datenblatt**ACT20P
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Technische Daten**Approvals**

Approvals

**Downloads**

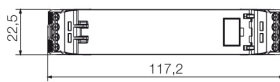
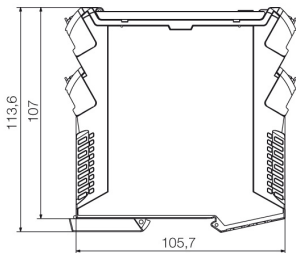
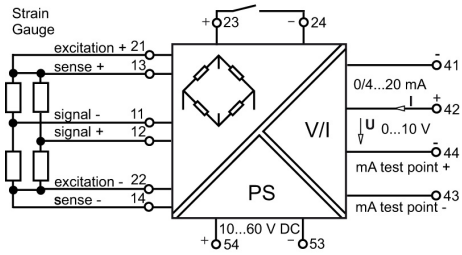
| | |
|---------------------------|--|
| Manual | ACT20P_Bridge_Quickstart_english.pdf |
| Package insert | Quickstart_german.pdf |
| Declaration of Conformity | Declaration of Conformity.pdf |
| EPLAN | 1067250000.ema |
| 3D Modell | |

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Zeichnungen

Electric symbol



dimensions