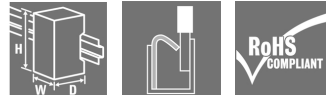


ACT20P
ACT20P-BRIDGE-P

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Similar to illustration**ACT20P: The flexible solution**

- Precise and highly functional signal converters
- Release levers simplify handling

General ordering data

| | |
|------------|---|
| Type | ACT20P-BRIDGE-P |
| Order No. | 2456820000 |
| Version | Measuring bridge converter, Resistance measuring bridge, 0(4)-20 mA |
| GTIN (EAN) | 4050118471762 |
| Qty. | 1 pc(s). |

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Technical data**Dimensions and weights**

| | | | |
|------------|----------|-----------------|------------|
| Width | 22.5 mm | Width (inches) | 0.886 inch |
| Height | 127.1 mm | Height (inches) | 5.004 inch |
| Depth | 113.6 mm | Depth (inches) | 4.472 inch |
| Net weight | 157 g | | |

Temperatures

| | | | |
|-----------------------------|----------------------------|-----------------------------|----------------|
| Humidity | 10...90 %, no condensation | Operating temperature, max. | 70 °C |
| Operating temperature, min. | -40 °C | Storage temperature, max. | 85 °C |
| Storage temperature, min. | -40 °C | Operating temperature | -40 °C...70 °C |
| Storage temperature | -40 °C...85 °C | | |

Environmental Product Compliance

| | |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

Input

| | | | |
|-----------------------|--|-------------------------|--|
| Number of inputs | 1 | Sensor | Resistance measuring bridge, Total resistance of all parallel resistance measuring bridges: min. 87Ω |
| Sensor supply | 120 mA @ 10 V (= 4 x 350 Ω bridge resistors) | 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 |

Output

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

General data

| | | | |
|--------------------|-----------------------|-------------------------|------------------------------------|
| Configuration | DIP switch and button | Linearity | Typically ± 0.05 % of signal range |
| Long-term drift | 0.1 % / 10.000 h | Power consumption | 3 W @ 24 V DC |
| Rail | TS 35 | Repeat accuracy | ± 0.05 % of final value |
| Step response time | < 400 ms (10...90 %) | Temperature coefficient | typ. 0.005 % / °C |
| Voltage supply | 10...60 V DC | | |

Insulation coordination

| | | | |
|------------------------|----------|--------------------|---|
| EMC standards | EN 61326 | Insulation voltage | 5.7 kV (input / output, input / supply) |
| Pollution severity | 2 | Rated voltage | 300 V _{eff} |
| Surge voltage category | III | | |

Output (analogue)

| | |
|------------------------|---|
| Type (analogue output) | Voltage and current output (configurable) |
|------------------------|---|

Creation date May 2, 2020 1:55:16 PM CEST

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Technical data

Connection data

| | | | |
|---|---------------------|---|---------------------|
| Type of connection | PUSH IN | Wire connection cross section AWG, min. | AWG 26 |
| Wire connection cross section AWG, max. | AWG 14 | Wire cross-section, solid, min. | 0.2 mm ² |
| Wire cross-section, solid, max. | 2.5 mm ² | Wire connection cross-section, finely stranded, min. | 0.2 mm ² |
| Wire connection cross section, finely stranded, max. | 2.5 mm ² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.2 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 2.5 mm ² | | |

Classifications

| | | | |
|-------------|-------------|------------|-------------|
| ETIM 6.0 | EC002653 | ETIM 7.0 | EC002653 |
| eClass 9.0 | 27-21-01-20 | eClass 9.1 | 27-21-01-90 |
| eClass 10.0 | 27-21-01-20 | | |

Product information

| | |
|---------------------|---|
| Product information | <p>The ACT20P-BRIDGE-P bridge measuring transducer converts measuring bridge voltages into standard signals. Buttons are used for adjustment to the measuring bridge connected. The bridge measuring transducer can supply up to 4 parallel-connected measuring bridges each with 350 Ω. The device supports simple compensation of the tare weight with a separate input for an external button or an external PLC signal. The power supply is galvanically isolated from input and output (3-way isolation).T</p> <p>Features</p> <ul style="list-style-type: none"> • 4-wire and 6-wire measurement • Supply of up to 4 parallel-connected measuring bridges each with 350 Ω • Input and output ranges can be adjusted via DIP switches • Tare compensation via external button or PLC signal • Front LED indicates operation status • 3-way galvanic isolation between input, output and power supply |
|---------------------|---|

Approvals

Approvals



| | |
|-----------|---------|
| Approvals | CULUS; |
| ROHS | Conform |

Downloads

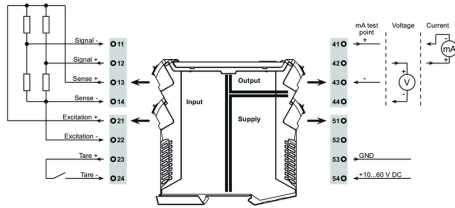
| | |
|---|---|
| Approval/Certificate/Document of Conformity | Declaration of Conformity |
| Engineering Data | STEP |
| Software | DIP switch configuration tool |
| User Documentation | Instruction sheet |

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Drawings

Electric symbol

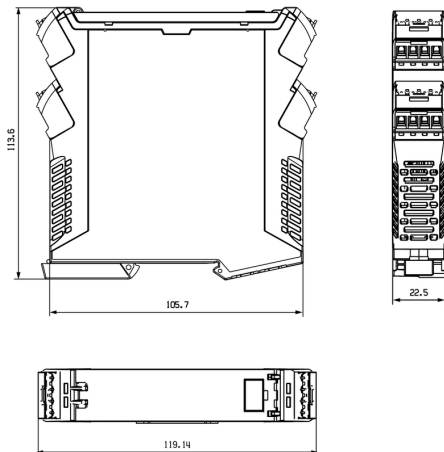


DIP switch setting

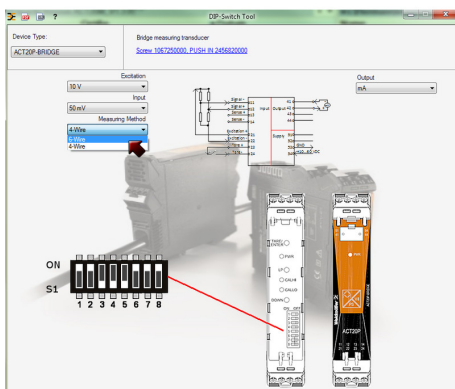
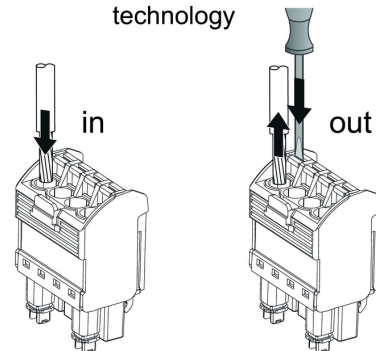
| | | DIP switch | | | | | | | |
|------------------|--|------------|---|---|---|---|---|---|---|
| Excitation | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 10 V | | ■ | | | | | | | |
| 5 V | | | | | | | | | |
| Output | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| mA | | | ■ | | | | | | |
| V | | | | | | | | | |
| Input span | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 10 mV | | | | ■ | | | | | |
| 20 mV | | | | | ■ | | | | |
| 30 mV | | | | | | ■ | | | |
| 50 mV | | | | | | | ■ | | |
| Measuring method | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 4-wire | | | | | | | | ■ | ■ |
| 6-wire | | | | | | | | | |

■ = ON

Dimensioned drawing, Similar to illustration



PUSH IN technology



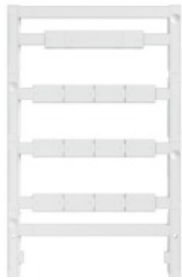
example for DIP switch setting (with ACT20 tool)

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Accessories

Accessories



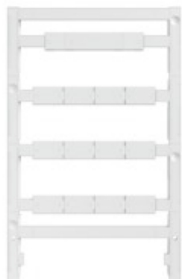
Accessories for the analogue signal processing products:

- End plates: for components with terminal-block design
- Retaining clips: for mounting IP6X signal isolators and displays
- Calibration devices: for calibrating and setting analogue signal converters
- MICRO interface: for direct transmission to a controller thus minimizing the wiring overhead
- markers
- Programming adapter: for configuring PC-configurable modules
- Cross-connector
- Power supply modules / power supplies
- Optional connection terminals and cold-junction compensation terminals

General ordering data

| | | |
|------------|----------------------------|---|
| Type | ESG 8/13.5/43.3 SAI AU | Version |
| Order No. | 1912130000 | ESG, Device markers x 13.5 mm, PA 66, Colour: Transparent |
| GTIN (EAN) | 4032248541164 | |
| Qty. | 5 pc(s). | |

Accessories for network-compatible current measuring transducers



Accessories for the analogue signal processing products:

- End plates: for components with terminal-block design
- Retaining clips: for mounting IP6X signal isolators and displays
- Calibration devices: for calibrating and setting analogue signal converters
- MICRO interface: for direct transmission to a controller thus minimizing the wiring overhead
- markers
- Programming adapter: for configuring PC-configurable modules
- Cross-connector
- Power supply modules / power supplies
- Optional connection terminals and cold-junction compensation terminals

General ordering data

| | | |
|------------|----------------------------|---|
| Type | ESG 6.6/20 BHZ 5.00/04 | Version |
| Order No. | 1082540000 | ESG, Device markers x 20 mm, PA 66, Colour: white |
| GTIN (EAN) | 4032248845439 | |
| Qty. | 200 pc(s). | |