

ACT20P
ACT20P-BRIDGE-S

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

Product image**ACT20P: The flexible solution**

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

General ordering data

Type	ACT20P-BRIDGE-S
Order No.	1067250000
Version	Measuring bridge converter, Resistance measuring bridge, 0(4)-20 mA
GTIN (EAN)	4032248820856
Qty.	1 pc(s).

Creation date April 22, 2020 9:02:00 AM CEST

Catalogue status 17.04.2020 / We reserve the right to make technical changes.

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Technical data**Dimensions and weights**

Width	22.5 mm	Width (inches)	0.886 inch
Height	119.2 mm	Height (inches)	4.693 inch
Depth	113.6 mm	Depth (inches)	4.472 inch
Net weight	176 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		

Probability of failure

MTTF	543 Years
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Rated data UL

UL certificate	Listing no.: E256486
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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		

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Technical data
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)
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Connection data

Type of connection	Screw connection	Tightening torque, min.	0.4 Nm
Tightening torque, max.	0.6 Nm	Clamping range, rated connection	2.5 mm ²
Clamping range, min.	0.5 mm ²	Clamping range, max.	2.5 mm ²
Wire connection cross section AWG, min.	AWG 26	Wire connection cross section AWG, max.	AWG 12

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-S 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 electrogalvanised and isolated from the input and output (3-way isolation).</p> <p>Properties</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 • Tara compensation via external button or PLC signal • Operating status display on a front panel LED • Galvanic 3-way isolation between input, output and supply.
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Approvals

Approvals



Approvals	CULUS;
ROHS	Conform

Data sheet**ACT20P
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Technical data**Downloads**

Approval/Certificate/Document of Conformity	Declaration of Conformity
Brochure/Catalogue	CAT 4.1 ELECTR 16/17 EN
Engineering Data	EPLAN, WSCAD
Engineering Data	STEP
Software	DIP switch configuration tool
User Documentation	Quickstart_german.pdf Instruction sheet

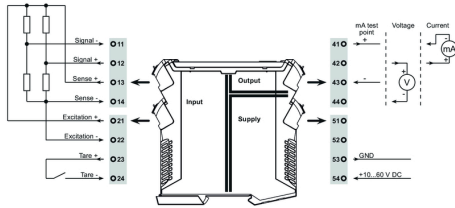
Data sheet

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Drawings

Electric symbol

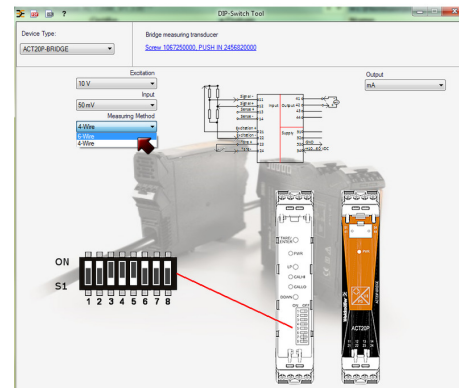
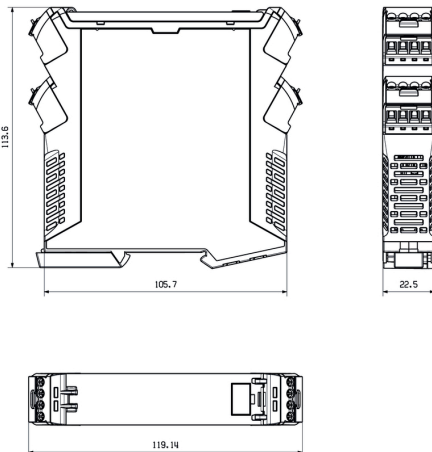


DIP switch setting

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

■ = ON

Dimensioned drawing



example for DIP switch setting (with ACT20 tool)