

**ACT20P**  
**ACT20P-BRIDGE-S**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
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**ACT20P: The flexible solution**

- Precise and highly functional signal converters
- Simple configuration via display (Pro DCDC II), FDT/DTM software or DIP switch
- Release levers simplify handling
- More space in the control cabinet, from 12.5 mm wide for two channels

**General ordering data**

Type	ACT20P-BRIDGE-S
Order No.	<a href="#">1067250000</a>
Version	Measuring bridge converter, Resistance measuring bridge, 0(4)-20 mA
GTIN (EAN)	4032248820856
Qty.	1 pc(s).

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**Technical data****Dimensions and weights**

Width	22.5 mm	Width (inches)	0.886 inch
Height	117.2 mm	Height (inches)	4.614 inch
Depth	113.6 mm	Depth (inches)	4.472 inch
Net weight	156.9 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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**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	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		

**Insulation coordination**

EMC standards	EN 61326	Insulation voltage	5.7 kV (input / output, input / supply)
Pollution severity	2	Rated voltage	300 V <sub>eff</sub>
Surge voltage category	III		

**Output (analogue)**

Type (analogue output)	Voltage and current output (configurable)
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Creation date July 2, 2018 9:50:15 AM CEST

Catalogue status 29.06.2018 / We reserve the right to make technical changes.

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**Technical data****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 <sup>2</sup>
Clamping range, min.	0.5 mm <sup>2</sup>	Clamping range, max.	2.5 mm <sup>2</sup>
Wire connection cross section AWG, min.	AWG 30	Wire connection cross section AWG, max.	AWG 14

**Rated data UL**

UL certificate	Listing no.: E256486
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**Classifications**

ETIM 3.0	EC002479	ETIM 4.0	EC002653
ETIM 5.0	EC002653	ETIM 6.0	EC002653
eClass 5.1	27-21-01-07	eClass 6.2	27-21-01-20
eClass 7.1	27-21-01-20	eClass 8.1	27-21-01-20
eClass 9.0	27-21-01-20	eClass 9.1	27-21-01-90

**Approvals**

Approvals



Approvals	CULUS;
ROHS	Conform

**Downloads**

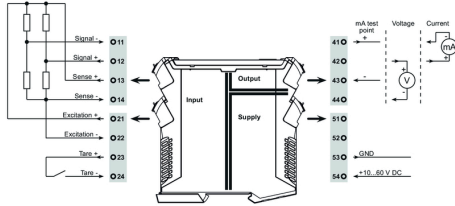
Approval/Certificate/Document of Conformity	<a href="#">Declaration of Conformity</a>
Brochure/Catalogue	<a href="#">CAT 4.1 ELECTR 16/17 EN</a>
Engineering Data	<a href="#">EPLAN, WSCAD</a>
Software	<a href="#">DIP switch configuration tool</a>
User Documentation	<a href="#">Quickstart_german.pdf</a>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

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Drawings

Electric symbol



DIP switch setting

Excitation	DIP switch							
	1	2	3	4	5	6	7	8
10 V	■							
5 V		■						

Output	DIP switch							
	1	2	3	4	5	6	7	8
mA	■							
V								

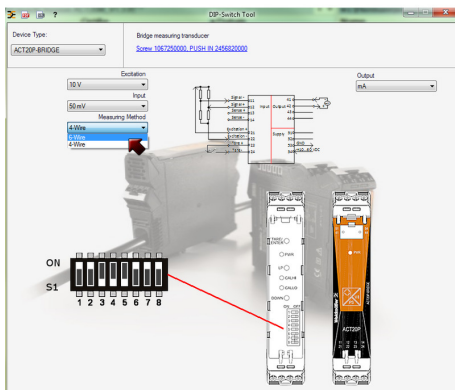
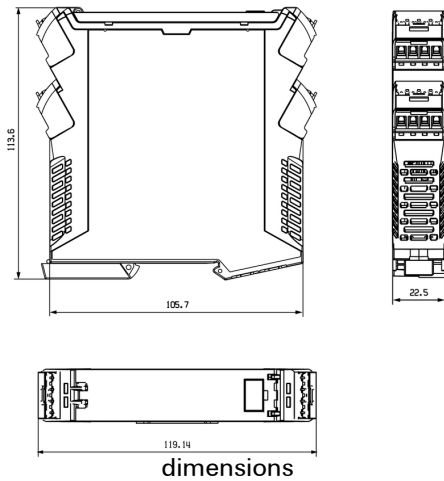
Input span	DIP switch							
	1	2	3	4	5	6	7	8
10 mV			■					
20 mV				■				
30 mV					■			
50 mV						■		

Measuring method	DIP switch							
	1	2	3	4	5	6	7	8
4-wire							■	■
6-wire								

■ = ON

Dimensioned drawing



example for DIP switch setting (with ACT20 tool)