

ACT20P ACT20P-BRIDGE-S

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
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 Germany
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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.	1067250000
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 _{eff}
Surge voltage category	III		

Output (analogue)

Type (analogue output)	Voltage and current output (configurable)
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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 ²
Clamping range, min.	0.5 mm ²	Clamping range, max.	2.5 mm ²
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

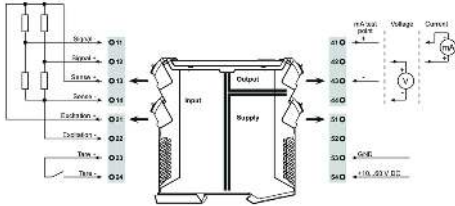
Approval/Certificate/Document of Conformity	Declaration of Conformity
Brochure/Catalogue	CAT 4.1 ELECTR 16/17 EN
Engineering Data	EPLAN, WSCAD
Engineering Data	STEP
Software	DIP switch configuration tool
User Documentation	Quickstart_german.pdf Instruction sheet

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Drawings

Electric symbol

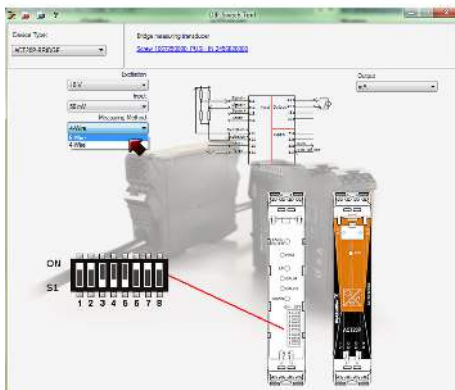
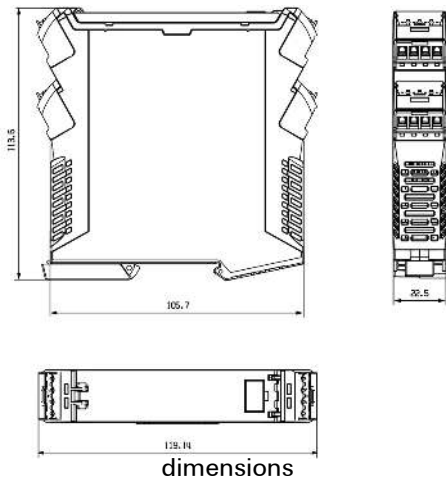


DIP switch setting

Excitation	DIP switch							
	1	2	3	4	5	6	7	8
10 V	<input checked="" type="checkbox"/>							
5 V		<input checked="" type="checkbox"/>						
Output	DIP switch							
	1	2	3	4	5	6	7	8
mA	<input checked="" type="checkbox"/>							
V		<input checked="" type="checkbox"/>						
Input span	DIP switch							
	1	2	3	4	5	6	7	8
	10 mV			<input checked="" type="checkbox"/>				
	20 mV				<input checked="" type="checkbox"/>			
30 mV					<input checked="" type="checkbox"/>			
50 mV						<input checked="" type="checkbox"/>		
Measuring method	DIP switch							
	1	2	3	4	5	6	7	8
4-wire							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6-wire								

■ = ON

Dimensioned drawing



example for DIP switch setting (with ACT20 tool)