ACT20P
ACT20P-BRIDGE-P

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
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Similar to illustration

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-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	117.2 mm	Height (inches)	4.614 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 signal range
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)

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Connection data

Type of connection	PUSH IN	Tightening torque, min.	0.4 Nm
Tightening torque, max.	0.6 Nm	Clamping range, rated connection	2.5 mm²
Clamping range, min.	0.5 mm²	Clamping range, max.	2.5 mm²
Wire connection cross section AWG, min.	AWG 30	Wire connection cross section AWG, max.	AWG 14

Classifications

ETIM 6.0	EC002653	eClass 6.2	27-21-01-20
eClass 9.0	27-21-01-20	eClass 9.1	27-21-01-90

Product information

Product information	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 Features • 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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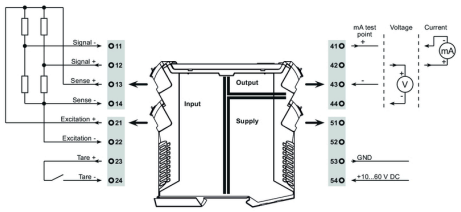
Drawings

Electric symbol

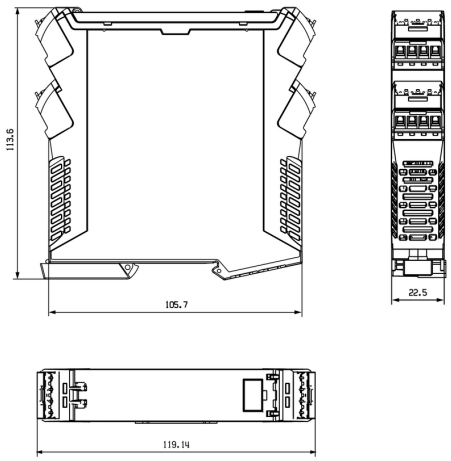


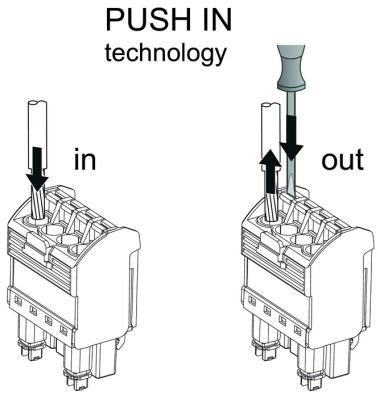
DIP switch setting

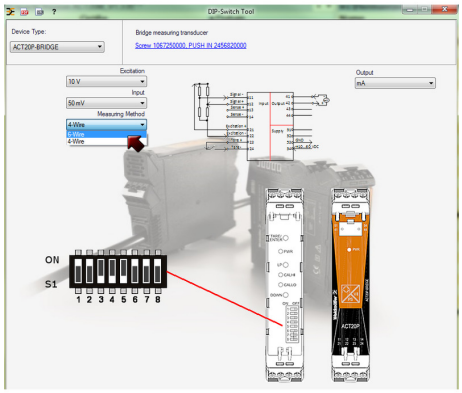
	DIP switch							
Excitation	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
10 V	■							
5 V								
Output	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
mA		■						
V								
Input span	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
10 mV			■					
20 mV				■				
30 mV					■			
50 mV						■		
Measuring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

■ = ON

Dimensioned drawing, Similar to illustration







example for DIP switch setting (with ACT20 tool)