

**ACT20P BRIDGE**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany

[www.weidmueller.com](http://www.weidmueller.com)

**ACT20P: The flexible solution**

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

**General ordering data**

Version	Measuring bridge converter, Input : Resistance measuring bridge, Output : 0(4)-20 mA, 0-10 V
Order No.	<a href="#">1067250000</a>
Type	ACT20P BRIDGE
GTIN (EAN)	4032248820856
Qty.	1 items

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## Technical data

## Approvals

Approvals	CE
Approvals	CULUS;
Approvals	

ROHS	Conform
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## Dimensions and weights

Depth	113.6 mm	Depth (inches)	4.4724 inch
Height	119.2 mm	Height (inches)	4.6929 inch
Width	22.5 mm	Width (inches)	0.8858 inch
Net weight	255.59 g		

## Temperatures

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

## Probability of failure

SIL in compliance with IEC 61508	None	MTTF	543 a
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## Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cl
REACH SVHC	Lead 7439-92-1
SCIP	2f6dd957-421a-46db-a0c2-cf1609156924

## Input

Bridge supply voltage	5 V or 10 V	Sensor	Strain gauge resistance, Resistance measurement, Total resistance of all parallel resistance measuring bridges: min. 87 Ω
Number inputs	1	Sensor supply	120 mA @ 10 V (= 4 x 350 Ω bridge resistors)
Bridge sensitivity	1.0 mV / V to 5.0 mV / V	Input signal	±10 mV / ±20 mV / ±30 mV / ±50 mV

## General data

Accuracy	<0.05 % of measuring range	Protection degree	IP20
Supply voltage	10...60 V DC	Long-term drift	0.1 % / 10.000 h
Linearity	Typically ± 0.05 % of signal range	Step response time	<400 ms (10...90 %)
Mounting rail	TS 35	Power consumption	3 W @ 24 V DC
Temperature coefficient	typ. 0.005 % / °C	Nominal power consumption	4 VA
Configuration	DIP switch and button	Operating altitude	≤ 2000 m

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### Insulation coordination

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

### 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 26	Wire connection cross section AWG, max.	AWG 12

### Part description

Product description	<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"> <li>• 4-wire and 6-wire measurement</li> <li>• Supply of up to 4 parallel-connected measuring bridges each with 350 Ω</li> <li>• Input and output ranges can be adjusted via DIP switches</li> <li>• Tara compensation via external button or PLC signal</li> <li>• Operating status display on a front panel LED</li> <li>• Galvanic 3-way isolation between input, output and supply.</li> </ul>
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### Classifications

ETIM 8.0	EC002653	ETIM 9.0	EC002653
ETIM 10.0	EC002653	ECLASS 14.0	27-21-01-20
ECLASS 15.0	27-21-01-20		

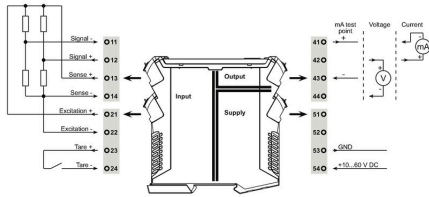
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**Drawings**

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**Electric symbol**

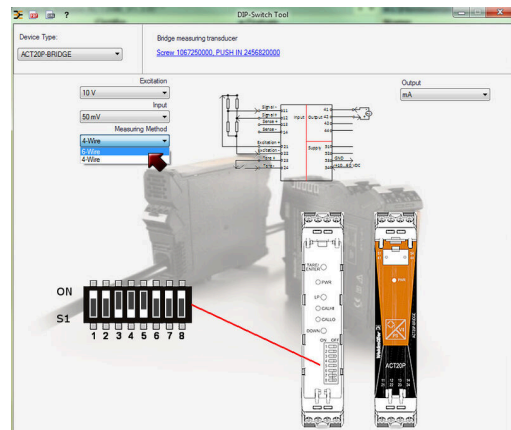
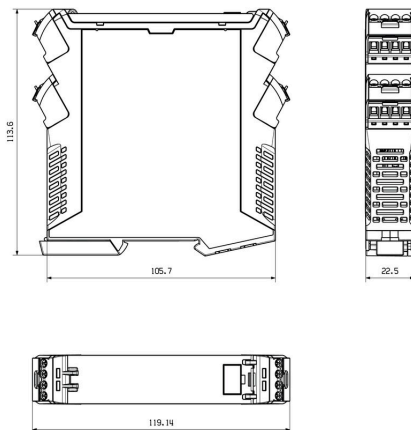


**DIP switch setting**

		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**



example for DIP switch setting (with ACT20 tool)