

ACT20P-BRIDGE-S**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image****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.	1067250000
Type	ACT20P-BRIDGE-S
GTIN (EAN)	4032248820856
Qty.	1 pc(s).

ACT20P-BRIDGE-S**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data**Dimensions and weights**

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

Temperatures

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

Probability of failure

MTTF	543 Years
------	-----------

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
------------	----------------

Input

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

Output

Load impedance current	≤ 600 Ω	Output current	0...22 mA (adjustable)
Output voltage, note	0...11 V (adjustable)	Type	active, connected control must be passive
load impedance voltage	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
Type of connection	Screw connection	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		

ACT20P-BRIDGE-S**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**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 26	Wire connection cross section AWG, max.	AWG 12

Classifications

ETIM 6.0	EC002653	ETIM 7.0	EC002653
ETIM 8.0	EC002653	ECLASS 9.0	27-21-01-20
ECLASS 9.1	27-21-01-90	ECLASS 10.0	27-21-01-20
ECLASS 11.0	27-21-01-20		

ACT20P-BRIDGE-S

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Tender specification sheets

Long specification

Bridge measuring transformer with electrical 3-way isolation, configurable measurement isolating transformer in 22.5 mm width with external power supply, for recording, transforming and isolating of measurements from industrial strain gauges. Standard DC current/ voltage signals are available on the output side. Measuring bridges of up to 3 x 350 Ohm can be supplied via the input circuit. Automatic tare calibration via external switch signal, or manually with a press of a button. 6-wire connection compensates for differences in wire resistance. Bridge excitation voltage can be switched between 5 V and 10 V. Load cells can be calibrated using a button on the front side. I/O signals can be configured via DIP switches. Add-on housing for TS35 rail mounting Dimensions: L/W/H 119.2/ 22.5/ 113.6 mm Screw connection / Nominal cross-section 2.5 mm² Protection degree: IP 20

Input
Resistance measuring bridge / 1 mV / V... 5 mV / V
Bridge sensitivity +/- 10 mV / +/- 20 mV / +/- 30 mV / +/- 50 mV (adjustable)
Input resistance > 1 MOhm
Bridge supply 5 V or 10 V

Short specification

Output
0...11 V / 0...22 mA configurable
Load resistance
1600 Ohm / 340 Ohm / 1 kOhm / voltage
Temperature coefficient
50 ppm / K

Bridge measuring transformer with electrical 3-way isolation, configurable measurement isolating transformer in 22.5 mm width with external power supply, for recording

Creation date December 29, 2021 / Weidmüller reserves the right to make technical changes.

Catalogue status 17.12.2021 / Weidmüller reserves the right to make technical changes.

ACT20P-BRIDGE-S**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data**Important note**

Product information

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).

Properties

- 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.

Approvals

Approvals



Approvals

CULUS;

ROHS

Conform

Downloads

Approval/Certificate/Document of Conformity

[Declaration of Conformity](#)

Engineering Data

[CAD data – STEP](#)

Engineering Data

[EPLAN, WSCAD](#)

Software

[Software unit – DIP switch configuration tool](#)

User Documentation

[Quickstart guide german](#)[Instruction sheet](#)[Quickstart guide english](#)

Catalogues

[Catalogues in PDF-format](#)

Brochures

www.weidmueller.com