

## ACT20P ACT20P-2CI-2CO-12

**Weidmüller Interface GmbH & Co. KG**  
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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-2CI-2CO-12
Order No.	<a href="#">7760054117</a>
Version	Signal converter/isolator, dual channel, Input : 2 x 4-20 mA, Output : 2 x 4-20 mA
GTIN (EAN)	6944 169656576
Qty.	1 pc(s).

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

Width	12.5 mm	Width (inches)	0.492 inch
Height	117.2 mm	Height (inches)	4.614 inch
Depth	113.7 mm	Depth (inches)	4.476 inch
Net weight	172 g		

**Temperatures**

Humidity	5...95 %, no condensation	Operating temperature, max.	60 °C
Operating temperature, min.	-20 °C	Storage temperature, max.	85 °C
Storage temperature, min.	-40 °C	Operating temperature	-20 °C...60 °C
Storage temperature	-40 °C...85 °C		

**Input**

Number of inputs	2	Sensor supply	> 17 V DC at 20 mA
Input signal	bi-directional HART® signal	Input voltage	≤ 28 V DC
Input current	0...20 mA, 4...20mA	Voltage drop	≤ 1 V

**Output**

Number of outputs	2	Output current	0...20 mA, 4...20 mA, HART® digital signal
load impedance current	< 300 Ω, per channel		

**General data**

Accuracy	< 0.1 % of end value	Configuration	none
Current consumption	≤60 mA (24V power supply, 20mA output)	Galvanic isolation	3-way isolator, between input/output/supply
Mounting rail	TS 35	Step response time	≤ 0,5 ms
Supply voltage	20...30 V DC	Temperature coefficient	80 ppm/K

**Insulation coordination**

EMC standards	EN 61010-1:2011, UL 61010-1, EN 61326-1	Galvanic isolation	3-way isolator, between input/output/supply
Impulse withstand voltage	4 kV (1.2/50 μs)	Insulation voltage	2 kV inputs / outputs / power supply
Pollution severity	2	Surge voltage category	III
Test 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 30	Wire connection cross section AWG, max.	AWG 14

**Classifications**

ETIM 6.0	EC002475	eClass 6.2	27-21-01-07
eClass 7.1	27-21-01-07	eClass 8.1	27-21-01-07
eClass 9.0	27-21-01-07	eClass 9.1	27-21-01-20

**Data sheet****ACT20P  
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**Technical data****Product information**

## Product information

The dual-channel, non-adjustable DC isolating amplifier ACT20P-2CI-2CO isolates analogue standard current source signals. An analogue input current signal is linearly converted into an analogue output current signal and is galvanically isolated. The power supply is galvanically isolated from the input and output (5-way isolation).

## Properties

- HART-compatible for 0.5 - 2.5 kHz
- The active or passive mA signal inputs are fully galvanically isolated.
- Operating status display on a front panel LED
- Galvanic 5-way isolation between input, output and supply.

**Approvals**

## Approvals

**Downloads**Approval/Certificate/Document of  
Conformity[Declaration of Conformity](#)

## Brochure/Catalogue

[CAT 4.1 ELECTR 16/17 EN](#)

## Engineering Data

[EPLAN, WSCAD, Zuken E3.S](#)

## User Documentation

[Instruction sheet](#)

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**Drawings**

**Dimensioned drawing**

