

ACT20P
ACT20P-2CI-2CO-12

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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.	7760054117
Version	Signal converter/isolator, dual channel, Input : 2 x 4-20 mA, Output : 2 x 4-20 mA
GTIN (EAN)	6944169656576
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 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	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

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Product information

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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

