

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) | 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 ² |
| Clamping range, min. | 0.5 mm ² | Clamping range, max. | 2.5 mm ² |
| Wire connection cross section AWG, min. | AWG 30 | Wire connection cross section AWG, max. | AWG 14 |

Classifications

| | | | |
|------------|-------------|------------|-------------|
| ETIM 6.0 | EC002653 | eClass 6.2 | 27-21-01-07 |
| 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

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Technical data

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 |
| Engineering Data | STEP |
| User Documentation | Instruction sheet |

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Drawings

Dimensioned drawing

