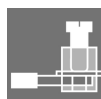


**ACT20P-CI-CO-S****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image****ACT20P: The flexible solution**

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

**General ordering data**

|            |                                                                                                |
|------------|------------------------------------------------------------------------------------------------|
| Version    | Isolating amplifier, Input : 0(4)-20 mA, Output : 0(4)-20 mA, Signal converter/isolator, HART® |
| Order No.  | <a href="#">7760054114</a>                                                                     |
| Type       | ACT20P-CI-CO-S                                                                                 |
| GTIN (EAN) | 6944169656552                                                                                  |
| Qty.       | 1 pc(s).                                                                                       |

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## Technical data

### Dimensions and weights

|            |          |                 |            |
|------------|----------|-----------------|------------|
| Depth      | 113.7 mm | Depth (inches)  | 4.476 inch |
| Height     | 117.2 mm | Height (inches) | 4.614 inch |
| Width      | 12.5 mm  | Width (inches)  | 0.492 inch |
| Net weight | 142 g    |                 |            |

### Temperatures

|                                   |                            |                       |                           |
|-----------------------------------|----------------------------|-----------------------|---------------------------|
| Storage temperature               | -40 °C...85 °C             | Operating temperature | -20 °C...60 °C            |
| Humidity at operating temperature | 0...95 % (no condensation) | Humidity              | 5...95 %, no condensation |

### Probability of failure

|                                  |      |
|----------------------------------|------|
| SIL in compliance with IEC 61508 | None |
|----------------------------------|------|

### Input

|                  |                     |              |                                                                                                     |
|------------------|---------------------|--------------|-----------------------------------------------------------------------------------------------------|
| Input current    | 0...20 mA, 4...20mA | Input signal | current source, HART® signal bidirectional                                                          |
| Number of inputs | 1                   | Sensor       | 2-wire transmitter (without own power supply), 3-wire sensor, 4-wire sensor (with own power supply) |
| Sensor supply    | > 17 V DC at 20 mA  | Voltage drop | ≤ 1 V                                                                                               |

### Output

|                        |                                                                                        |                   |                                           |
|------------------------|----------------------------------------------------------------------------------------|-------------------|-------------------------------------------|
| Load impedance current | ≤ 550 Ω                                                                                | Number of outputs | 1                                         |
| Output current         | 0...20 mA (if input: 0...20 mA), 4...20 mA (if input: 4...20 mA), HART® digital signal | Type              | active, connected control must be passive |

### Output (digital)

|                            |       |                            |     |
|----------------------------|-------|----------------------------|-----|
| Max. switching voltage, AC | 0 V   | Max. switching voltage, DC | 0 V |
| Rated switching current    | 0.1 A |                            |     |

### 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 |
| Power consumption       | ca. 1.5 W                              | Protection degree                            | IP20                                        |
| Rail                    | TS 35                                  | Step response time                           | ≤ 0,5 ms                                    |
| Temperature coefficient | 80 ppm/K                               | Type of signal forwarding according to HART® | unchanged                                   |
| Voltage supply          | 20...30 V DC                           |                                              |                                             |

### Insulation coordination

|                           |                                        |                    |                                             |
|---------------------------|----------------------------------------|--------------------|---------------------------------------------|
| EMC standards             | EN 61326-1, EN 61000-6-2, EN 61000-6-4 | 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                                      | Rated voltage      | 300 V                                       |
| Surge voltage category    | III                                    | Test voltage       | 0.3 kV                                      |

Creation date November 26, 2024 11:53:21 AM CET

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## Technical data

## Data for Ex applications (ATEX)

|         |                        |
|---------|------------------------|
| Marking | II 3 G Ex ec IIC T5 Gc |
|---------|------------------------|

## 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              |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002653    | ETIM 7.0    | EC002653    |
| ETIM 8.0    | EC002653    | ETIM 9.0    | EC002653    |
| ECLASS 9.0  | 27-21-01-20 | ECLASS 9.1  | 27-21-01-20 |
| ECLASS 10.0 | 27-21-01-20 | ECLASS 11.0 | 27-21-01-20 |
| ECLASS 12.0 | 27-21-01-20 | ECLASS 13.0 | 27-21-01-20 |
| ECLASS 14.0 | 27-21-01-20 |             |             |

## Environmental Product Compliance

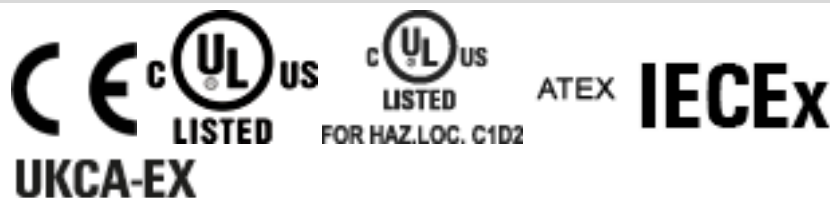
|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 7a, 7cl            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

## Important note

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product information | <p>The non-adjustable DC isolating amplifier ACT20P-CI-CO isolates analogue standard current signals from a power source or from a 2- or 3-wire sensor. 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 (3-way isolation).</p> <p>Properties</p> <ul style="list-style-type: none"> <li>• HART-compatible for 0.5 - 2.5 kHz</li> <li>• The active or passive mA signal inputs are fully galvanically isolated.</li> <li>• Operating status display on a front panel LED</li> <li>• Galvanic 3-way isolation between input, output and supply.</li> </ul> |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Approvals

Approvals



|                           |            |
|---------------------------|------------|
| ROHS                      | Conform    |
| UL File Number Search     | UL Website |
| Certificate no. (cULus)   | E469563    |
| Certificate no. (cULusEX) | E338066    |

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## Technical data

### Downloads

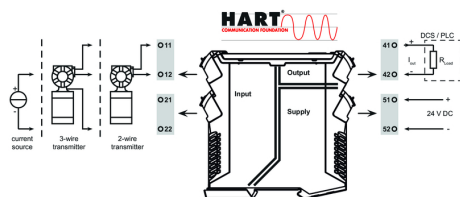
|                                             |                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">IECEX Certification</a><br><a href="#">ATEX Certification</a><br><a href="#">UL Certification (hazardous location)</a><br><a href="#">UL Certification (US-CAN)</a><br><a href="#">UL certification (hazardous locations) for canada</a><br><a href="#">Declaration of Conformity</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                                                                                                                                                                                                                                                                   |
| User Documentation                          | <a href="#">Instruction sheet</a>                                                                                                                                                                                                                                                                 |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                                                                                                                                                                                                                          |
| Brochures                                   |                                                                                                                                                                                                                                                                                                   |

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**Drawings**
**Connection diagram**

**Dimensioned drawing**
