

**ACT20P-2CI-2CO-12-S****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Similar to illustration****ACT20P: The flexible solution**

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

**General ordering data**

Version	Analogue isolating amplifier, Input : 2 x 0(4) - 20 mA, Output : 2 x 4-20 mA, Signal converter/isolator, HART®
Order No.	<a href="#">7760054117</a>
Type	ACT20P-2CI-2CO-12-S
GTIN (EAN)	6944 169656576
Qty.	1 pc(s).

Creation date June 12, 2025 1:36:05 PM CEST

Catalogue status 07.06.2025 / We reserve the right to make technical changes.

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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	124 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
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### Input

Input current	0...20 mA, 4...20mA	Input signal	HART signal® bidirectional
Input voltage	≤ 28 V DC	Number of inputs	2
Sensor	4-wire sensor (with own power supply)	Voltage drop	≤ 1 V

### Output

Load impedance current	<300 Ω, per channel	Number of outputs	2
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	≤100 mA (24V power supply, 20mA output)	Nominal power consumption	2 VA
Operating altitude	≤ 2000 m	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 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	0.3 kV		

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### 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
ETIM 10.0	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
ECLASS 15.0	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

### Approvals

Approvals



Approvals MAMID [https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319222/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/) [https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319228/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/) [https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_322323/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_322323/-T1z1mm-S800/) [https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319213/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319213/-T1z1mm-S800/) [https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319240/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319240/-T1z1mm-S800/) [https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319260/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/)

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> <a href="#">ATEX Certification</a> <a href="#">UL Certification (hazardous location)</a> <a href="#">UL Certification (US-CAN)</a> <a href="#">UL certification (hazardous locations) for canada</a> <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	

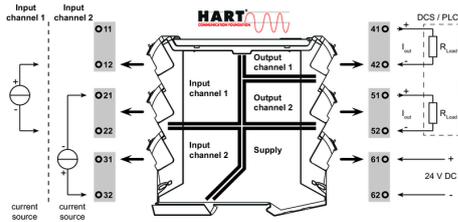
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**Drawings**

**Connection diagram**



**Dimensioned drawing**

