

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.	7760054117
Type	ACT20P-2CI-2CO-12-S
GTIN (EAN)	6944169656576
Qty.	1 items

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Technical data

Approvals

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ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E366074
Certificate no. (cULusEX)	E338066

Dimensions and weights

Depth	113.7 mm	Depth (inches)	4.4764 inch
Height	117.2 mm	Height (inches)	4.6142 inch
Width	12.5 mm	Width (inches)	0.4921 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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Environmental Product Compliance

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

Input

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

Output

Number of outputs	2	Load impedance current	<300 Ω, per channel
Type	active, connected control must be passive	Output current	0...20 mA (if input: 0...20 mA), 4...20 mA (if input: 4...20 mA), HART® digital signal

General data

Accuracy	<0.1 % of end value	Protection degree	IP20
Supply voltage	20...30 V DC	Step response time	≤ 0,5 ms
Current consumption	≤100 mA (24V power supply, 20mA output)	Mounting rail	TS 35
Temperature coefficient	80 ppm/K	Type of signal forwarding according to HART®	unchanged

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Nominal power consumption	2 VA	Configuration	none
Operating altitude	≤ 2000 m		

Insulation coordination

Impulse withstand voltage	4 kV (1.2/50 µs)	EMC standards	EN 61010-1:2011, UL 61010-1, EN 61326-1
Test voltage	0.3 kV	Surge voltage category	III
Pollution severity	2	Galvanic isolation	3-way isolator, between input/output/supply
Insulation voltage	2 kV inputs / outputs / power supply		

Data for Ex applications (ATEX)

Marking	II 3 G Ex ec IIC T5 Gc	IECEx - gas labelling	Ex ec IIC T5 Gc
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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 26	Wire connection cross section AWG, max.	AWG 12

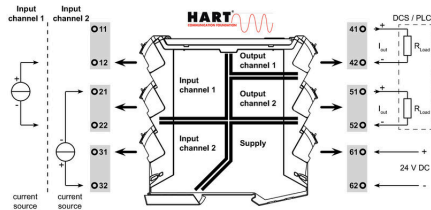
Part description

Product description	<p>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).</p> <p>Properties</p> <ul style="list-style-type: none"> • HART-compatible for 0.5 - 2.5 kHz • Operating status display on a front panel LED • Galvanic 5-way isolation between input, output and supply. 		
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Classifications

ETIM 8.0	EC002653	ETIM 9.0	EC002653
ETIM 10.0	EC002653	ECLASS 14.0	27-21-01-20
ECLASS 15.0	27-21-01-20		

Connection diagram



Dimensioned drawing

