

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

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Similar to illustration****HART**
COMMUNICATION PROTOCOL**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)	6944 169656576
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	170 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)	Galvanic isolation	3-way isolator, between input/output/supply
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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Technical data**Data for Ex applications (ATEX)**

Marking	II 3 G 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

Classifications

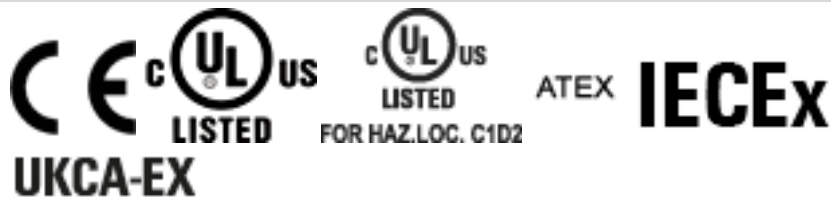
ETIM 6.0	EC002653	ETIM 7.0	EC002653
ETIM 8.0	EC002653	ETIM 9.0	EC002653
ETIM 10.0	EC002653	ECLASS 9.0	27-21-01-20
ECLASS 9.1	27-21-01-20	ECLASS 10.0	27-21-01-20
ECLASS 11.0	27-21-01-20	ECLASS 12.0	27-21-01-20
ECLASS 13.0	27-21-01-20	ECLASS 14.0	27-21-01-20
ECLASS 15.0	27-21-01-20		

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_319228/-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_319240/-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	IECEX Certification ATEX Certification UL Certification (hazardous location) UL Certification (US-CAN) UL certification (hazardous locations) for canada Declaration of Conformity
Engineering Data	CAD data – STEP
User Documentation	Instruction sheet
Catalogues	Catalogues in PDF-format
Brochures	

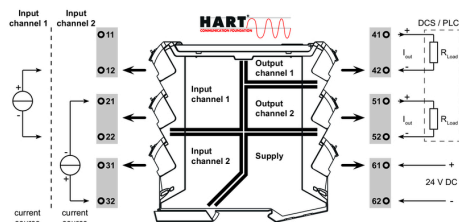
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Drawings

Connection diagram



Dimensioned drawing

