

ACT20M
ACT20M-AI-2AO-S
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Configurable ACT20M AI-AO U/I DC converter/supply isolator and ACT20M-AI-2AO signal multiplier: with 6.1 mm width and external power supply for transmitting and isolating analogue DC current and voltage signals. The universal input and output parameters can be configured as required using the DIP switches. The input/output channel(s) and power supply have 2.5 kV of electrical isolation.

The universal ACT20M-AI-AO-S supply isolator can feed power directly from the input loop signal to passive sensors. ACT20M-AI-2AO-S with 4-way isolation is designed as a signal splitter. The input signal is doubled on the output side. It can be transmitted simultaneously to a controller and an external display.

High precision of < 0.05% of measurement range, wide temperature range of -25°C (0°C)...+70°C and international approvals (cULus, ATEX Zone2, FM Div2, GL, DNV) mean the device can be used in many applications around the world.

The power supply can be easily and quickly installed using the CH20M DIN rail bus. The power can be supplied using any ACT20M module (up to 20 devices) or a separate ACT20 supply module (up to 200 devices).

General ordering data

Type	ACT20M-AI-2AO-S
Order No.	1176020000
Version	Signal converter/insulator, Signal distributor, Configurable, 3-way isolator, 24 V DC $\pm$ 30 %
GTIN (EAN)	4032248970087
Qty.	1 pc(s).

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Technical data
Dimensions and weights

Width	6.1 mm	Width (inches)	0.24 inch
Height	112.5 mm	Height (inches)	4.429 inch
Depth	114.3 mm	Depth (inches)	4.5 inch
Net weight	80 g		

Temperatures

Humidity	40 °C / 93 % rel. humidity, no condensation	Operating temperature	-25 °C...70 °C
Ambient temperature	-25 °C...+70 °C	Storage temperature	-40 °C...85 °C

Probability of failure

MTBF	181 Years
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Input

Number of inputs	1	Sensor supply	> 17 V DC at 20 mA
Input voltage	0(2)...10 V, 0(1)...5 V	Input resistance, voltage	500 kΩ
Input current	0...20 mA, 4...20mA	Voltage drop, current input	< 1.5 V
Input resistance, current	70 Ω	Voltage drop	<1,5 V

Output

Number of outputs	2	Output voltage, note	adjustable, 0(2)...10 V, 0(1)...5 V
Output current	adjustable, 0...20 mA, 4...20 mA	Cut-off frequency (-3 dB)	100 Hz
load impedance voltage	≥ 10 kΩ	load impedance current	< 300 Ω, per channel, @ max 23mA

General data

Accuracy	< 0.05 % of measuring range	Configuration	DIP switch
Galvanic isolation	3-way isolator	Mounting rail	TS 35
Power consumption, max.	1.2 W	Power consumption, typ.	0.84 W
Step response time	≤ 7 ms	Supply voltage	24 V DC ± 30 %
Temperature coefficient	≤ 0.01 % / °C	Type of connection	Screw connection

Insulation coordination

EMC standards	IEC 61326-1, NE 21	Galvanic isolation	3-way isolator
Insulation voltage	2.5 kV _{eff} / 1 min.	Pollution severity	2
Rated voltage	300 V _{eff}	Standards	IEC 61010-1
Surge voltage category	II		

Data for Ex applications (ATEX)

Marking	II 3 G Ex nA IIC T4 Gc
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Technical data**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, rated connection, min.	0.5 mm ²	Clamping range, rated connection, max.	2.5 mm ²
Wire connection cross section AWG, min.	AWG 30	Wire connection cross section AWG, max.	AWG 14

Rated data UL

UL certificate	E337701.pdf
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Ratings IECEx/ATEX/cUL

Certificate No. (ATEX)	KEMA10ATEX0183X	Certificate No. (IECEX)	IECEXKEM10.0090X
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Classifications

ETIM 3.0	EC002479	ETIM 4.0	EC002653
ETIM 5.0	EC002653	ETIM 6.0	EC002653
eClass 6.2	27-21-01-20	eClass 7.1	27-21-01-20
eClass 8.1	27-21-01-20	eClass 9.0	27-21-01-20
eClass 9.1	27-21-01-20		

Product information

Product information	The configurable DC isolating amplifier ACT20M-AI-AO-S isolates and converts analogue standard signals. An analogue input signal is linearly converted into an analogue output signal and galvanically isolated. The input can also be operated as an active current loop (the loop current is supplied by the device). The power supply is galvanically isolated from the input and output (3-way isolation) by means of direct wiring or the Weidmüller rail bus. The configurable DC isolation amplifier ACT20M-AI-2AO-S offers the same functionality, but has 2 galvanically isolated outputs (4-way isolation).
Descriptive text technical data	Power supply optionally over the DIN mounting rail CH20M
Descriptive text accessories	DIN mounting rail, see Accessories

Approvals

Approvals



ROHS	Conform
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Downloads

Engineering data	EPLAN, WSCAD, Zuken E3.S
Package insert	instruction sheet.pdf
Software	DIP switch configuration tool
Declaration of Conformity	Declaration of Conformity

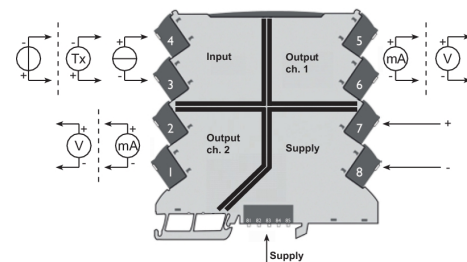
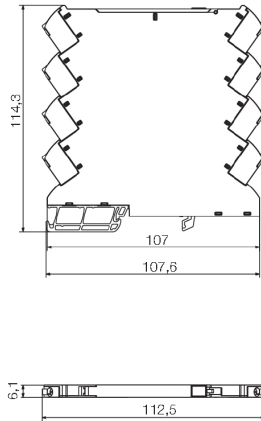
Creation date January 16, 2017 6:44:10 AM CET

Catalogue status 18.12.2016 / We reserve the right to make technical changes.

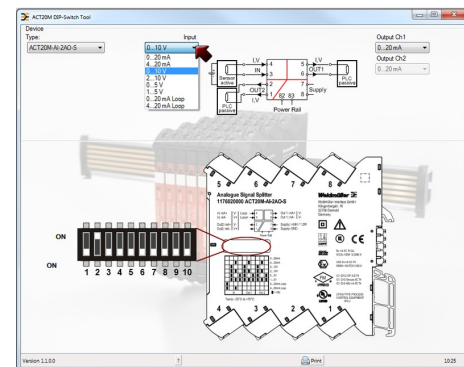
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Drawings



Power supply via the rail bus



Example of DIP switch setting with software tool

Power supply via the rail bus

Example of DIP switch setting with software tool

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Let's connect.

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