

ACT20M-AI-AO-S

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ACT20M AI-AO universal 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 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. The 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.

The following features permit use in many applications around the world: high precision of $\lt; 0.05\%$ of measurement range; wide temperature range of -25°C (0°C) to $+70^{\circ}\text{C}$; and international approvals (cULus, ATEX Zone2, FM Div2, GL, DNV).

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

Order No.	1176000000
Type	ACT20M-AI-AO-S
GTIN (EAN)	4032248970063
Qty.	1 pc(s).

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Technical data

Dimensions

Length	114.3 mm	Width	6.1 mm
Height	112.5 mm		

Temperatures

Operating temperature	-25 °C...+70 °C	Ambient temperature (text)	-40 °C...+70°C
Storage temperature	-40 °C...+85 °C		

Input

Sensor supply	> 17 V DC at 20 mA	Input frequency	100 Hz
Input current	0(4)...20 mA	Input voltage	0(2)...10 V, 0(1)...5 V

Output

Cut-off frequency (-3 dB)	100 Hz	load impedance voltage	≥ 10 kΩ
Number of outputs	1	load impedance current	≤ 600 Ω
Output voltage, note	0(2)...10 V, 0(1)...5 V	Output current	0(4)...20 mA

General data

Accuracy	< 0.05 % of measuring range	Galvanic isolation	3-way isolator
Humidity	40°C / 93% rel. humidity, no condensation	Mounting rail	TS 35
Supply voltage	24 V DC ± 30 %	Temperature coefficient	≤ 0.01 % / °C
Type of connection	Screw connection		

Insulation coordination

EMC standards	EN 61326-1	Insulation voltage	2.5 kV _{eff}
Pollution severity	2	Rated voltage	300 V _{eff}
Standards	DIN EN 61010-1, DIN EN 60079, DIN EN 61326-1	Surge voltage category	II

Ratings IECEx/ATEX

Certificate No. (ATEX)	KEMA10ATEX0183X	Certificate No. (IECEx)	IECExKEM10.0090
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Classifications

ETIM 3.0	EC002479	ETIM 4.0	EC002653
eClass 6.0	27-21-01-20		

Approvals

Approvals	CE; CULUS; DETNORVER; FMEX; GERMLLOYD; IECExKEM; KEMAATEX
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Drawings

Electric symbol

