

**ACT20M-AI-AO-E-S**

**Weidmüller Interface GmbH & Co. KG**

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Germany

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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 <math>\lt; 0.05\%</math> of measurement range; wide temperature range of  $-25^{\circ}\text{C}$  ( $0^{\circ}\text{C}$ ) 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.	<a href="#">1176010000</a>
Type	ACT20M-AI-AO-E-S
GTIN (EAN)	4032248970094
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	0 °C...+70 °C	Storage temperature	-40 °C...+85 °C
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**Input**

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	< 0.2 % 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	≤ 0.015 % / °C
Type of connection	Screw connection		

**Insulation coordination**

EMC standards	EN 61326-1	Insulation voltage	2.5 kV <sub>eff</sub>
Pollution severity	2	Rated voltage	300 V <sub>eff</sub>
Standards	DIN EN 61010-1, DIN EN 60079, DIN EN 61326-1	Surge voltage category	II

**Classifications**

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

**Approvals**

Approvals	CE; CULUS; DETNORVER; GERMLLOYD
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**Drawings**

**Electric symbol**

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