

ACT20M-UI-AO-S

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The ACT20M-UI-AO universal signal isolating converter: with 6.1 mm width for recording, isolating and converting analogue current/voltage signals and 2/3/4-wire PT100 or TC temperature sensors.

The 3-way electrical isolation of 2.5 kV and an accuracy of up to 0.05% both help to ensure a high degree of process reliability.

The signal isolating converter gets power from a 24 VDC external power supply The feature set permits use in many applications around the world: a wide temperature range of -25°C (0°C) to +70°C and international approvals (cULus, ATEX Zone2, FM Div2, GL, DNV).

The power supply is simply snapped onto the CH20M DIN rail bus for fast and easy installation.

The power can be supplied using any ACT20M module (for up to 20 devices) or a separate ACT20 supply module (for up to 200 devices).

The ACT20M-UI-AO signal isolating converter can be configured with FDT/DTM software. The CBX200 USB interface is used to connect to the PC.

General ordering data

Order No.	1176030000
Type	ACT20M-UI-AO-S
GTIN (EAN)	4032248970070
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	> 15 V DC at 20 mA	Input frequency	100 Hz
Resistance	10 Ω...10 kΩ	Sensor	Thermocouples: B, E, J, K, L, LR, N, R, N, R, S, T, U, W3, W5, RTD: PT100, PT1000, Ni100, Ni1000, 2-/3-/4-wire
Potentiometer	10 Ωhellip;10 kΩ	Input current	0(4)...20 mA
Input voltage	0(2)...10 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	Output current	0(4)...20 mA

General data

Accuracy	< 0.1 % span (DC. RTD); 0.2 % span (or 1 °C) + CJ failure	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	CULUS; DETNORVER; FMEX; GERMLLOYD; IECEXKEM; KEMAATEX
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