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UTCAR

Weidmüller Interface GmbH & Co. KG

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Fax: +49 5231 14-292083

www.weidmueller.com



The AR SERIES of signal isolating converters, with alarm function for process automation, provide a flexible interface between the sensor and the control system. The output side features analogue standard signals and two relay outputs for limit monitoring. On the input side, parameters can be processed depending on the module. This includes signal isolating converters for processing analogue signals such as current, voltage, temperature (PT100 and thermocouple sensors), frequency, conductivity, curve linearisation/characterisation, and additional math functions.

The process monitoring components from the AR SERIES come with a four-character, scalable LED display.

The scaling of the input parameters is done automatically. External passive sensors can be supplied directly via the input circuit of the signal isolating converter.

The user-friendly menus are easy and navigate and make it easy to configure the operating parameters.

The monitoring components are enclosed in a rugged rail-mountable

metal housing and feature complete isolation at 2 kV.

General ordering data

Order No.	7940012190
Type	UTCAR
Version	Process monitoring, Thermocouple (type J,K,T,E,B,S,R) or mV signals
GTIN (EAN)	4032248566037
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Width	46 mm	Height	97 mm
Depth	120 mm	Weight	504 g
Net weight	504 g		

Temperatures

Operating temperature	0 °C...+60 °C	Storage temperature	-25 °C...+70 °C
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Input

Type	Thermocouples (type J,K,T,E,B,S,R) or mV signals	Input resistance	≤ 1 kΩ
Sensor	J 870°C(1598°F)/-50°C(-58°F), K 1372°C(2502°F)/-50°C(-58°F), N 1300°C(2375°F)/-50°C(-58°F), T 400°C(752°F)/-50°C(Input signal	Thermocouple (type J,K,T,E,B,S,R) or mV signals

Display

Type	4-character display	Display range	Depends on input type
Display value	°C / °F or V	Resolution (display)	1 °C / °F or 0.01 mV

alarm output

Type	Alarm output with 2 NO contacts and suppressor circuit	Switching current	1 A @ 240 V AC / 30 V DC
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General data

Accuracy	< 0,1 %	Cold-junction compensation error	≤ 0.02 / C° ambient temperature
Humidity	0...90 % (no condensation)	Input/Output	Temperature converter
Linearity	± 0.1 % typ.	Long-term drift	0.1 % / 10.000 h
Mounting rail	TS 35, TS 32	Power consumption	6 W @ 24 V DC
Repeat accuracy	± 0.05 % of signal range	Sampling rate	5x pro s
Step response time	320 ms (10...90 %), adjustable to 250 ms...32 s	Supply voltage	12...50 V DC
Temperature coefficient	≤ 0.02 % / °C	Type of connection	Screw connection

Insulation coordination

EMC standards	DIN EN 61326	Impulse withstand voltage	4 kV (1.2/50 µs)
Insulation voltage	2 kV input / output / power supply	Rated voltage	300 V _{eff}
Standards	DIN EN 50178		

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Technical data

Output (analogue)

Load resistance current [output analogue]	≤ 900 Ω	Load resistance voltage [output analogue]	≥ 1 kΩ
Output current [output analogue]	0...22 mA	Output voltage [output analogue]	0...11 V
Transmit function	direct or inverted	Type (analogue output)	Voltage and current output (configurable)

Classifications

ETIM 3.0	EC001774	UNSPSC	30-21-18-01
eClass 6.0	27-21-09-90	eClass 7.0	27-21-09-90

Approvals

Approvals



Downloads

Declaration of Conformity [K_459_07_11.pdf](#)

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Drawings

Electric symbol

