

MICROSERIES UTCAR

Weidmüller Interface GmbH & Co. KG
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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

Type	UTCAR
Order No.	7940012190
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	Width (inches)	1.811 inch
Height	97 mm	Height (inches)	3.819 inch
Depth	120 mm	Depth (inches)	4.724 inch
Weight	504 g	Net weight	504 g

Temperatures

Humidity	0...90 % (no condensation)	Operating temperature, max.	60 °C
Operating temperature, min.	0 °C	Storage temperature, max.	70 °C
Storage temperature, min.	-25 °C	Operating temperature	0 °C...60 °C
Storage temperature	-25 °C...70 °C		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Input

Type	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
	Thermocouples (type J,K,T,E,B,S,R) or mV signals	
Input signal	Thermocouple (type J,K,T,E,B,S,R) or mV signals	Input resistance
		≤ 1 kΩ

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
Input/Output	Temperature converter	Linearity	± 0.1 % typ.
Long-term drift	0.1 % / 10.000 h	Power consumption	6 W @ 24 V DC
Rail	TS 35, TS 32	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
Temperature coefficient	≤ 0.02 % / °C	Voltage supply	12...50 V DC

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}

Creation date May 28, 2019 12:18:25 AM CEST

Data sheet

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Output (analogue)

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

Connection data

Type of connection	Screw connection	Clamping range, rated connection	1.5 mm ²
Clamping range, min.	0.5 mm ²	Clamping range, max.	2.5 mm ²

Classifications

ETIM 3.0	EC001774	ETIM 4.0	EC001774
ETIM 5.0	EC001774	ETIM 6.0	EC000677
UNSPSC	30-21-18-01	eClass 6.2	27-21-09-90
eClass 7.1	27-21-09-90	eClass 8.1	27-21-09-90
eClass 9.0	27-14-31-10	eClass 9.1	27-21-03-01

Approvals

Approvals



ROHS Conform

Downloads

User Documentation [Manual](#)

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Drawings

Electric symbol

