

MICROSERIES URTAR

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 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 to 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	URTAR
Order No.	7940010250
Version	Process monitoring, 2-/3-wire PT100, Ni120
GTIN (EAN)	4032248566013
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	493 g	Net weight	493 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	2-/3-wire PT100 RTD	Input signal	2-/3-wire PT100, Ni120
Cable-length compensation	> 0.05 %	Line resistance in measuring circuit	30 Ω

Display

Type	4-character display	Display range	Depends on selected range
Display value	°C or °F	Resolution (display)	1 °C / °F or 0.1 °C / °F

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	< 1 °C for 1 °C dissolution	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 (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}

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Technical data
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

