

**MICROSERIES
UCVAR**
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 1429-0

Fax: +49 5231 14292083

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	UCVAR
Order No.	7940010195
Version	Process monitoring, -55...+55 mA / -55...+55 V
GTIN (EAN)	4032248565955
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	497 g	Net weight	497 g

Temperatures

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

Input

Type	Analogue current / voltage signals	Sensor supply	24 V DC (up to 25 mA)
Input signal	-55...+55 mA / -55...+55 V	Input resistance, voltage	1 MΩ
Input resistance, current	22 Ω	Resolution	1 µA/ mV per bit for small ranges

Display

Type	4-character display	Display range	-999...9999
Display value	Percentage or real value display	Resolution (display)	0.001 of displayed value

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 %	Input/Output	Current input / voltage input
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		

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		

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)

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Technical data
Connection data

Type of connection	Screw connection	Clamping range, rated connection	1.5 mm ²
Clamping range, rated connection, min.	0.5 mm ²	Clamping range, rated connection, 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	27-21-09-90	eClass 9.1	27-21-03-01

Product information

Descriptive text technical data	PE connection direct on enclosure
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Approvals

Approvals



ROHS	Conform
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Downloads

User Documentation	Manual
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Drawings

Electric symbol

