

CNDAR

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	CNDAR
Order No.	7940010232
Version	Process monitoring, 0 to 200 μ S (0.1 μ S resolution) 0 to 1000 / 5000 μ S (1 μ S resolution) 0 to 20 mS (0.01 mS resolution) 0 to 200 $^{\circ}$ C (0.1 $^{\circ}$ C resolution)
GTIN (EAN)	4032248564262
Qty.	1 pc(s).

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Technical data**Dimensions and weights**

Width	46 mm	Height	97 mm
Depth	120 mm	Weight	500 g
Net weight	500 g		

Temperatures

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

Input

Sensor supply	$\leq 6 V_{SS}$ @ 400 Hz	Supply voltage	12...50 V DC
Type	Conductivity, PT100 RTD	Cable-length compensation	< 2 % (up to 30 Ω)
Input signal	0 to 200 μ S (0.1 μ S resolution) 0 to 1000 / 5000 μ S (1 μ S resolution) 0 to 20 mS (0.01 mS resolution) 0 to 200 °C (0.1 °C resolution)		

Display

Type	4-character display	Display range	-999...9999
Display value	μ S, mS, μ S/cm, mS/cm or °C	Resolution (display)	Refer to input signal

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	$\pm 0.05\%$ of final value	Input/Output	Voltage/current output
Linearity	$\pm 0.05\%$ of signal range	Long-term drift	0.1 % / 10.000 h
Mounting rail	TS 35, TS 32	Power consumption	6 W @ 24 V DC
Repeat accuracy	$\pm 0.05\%$ of signal range	Sampling rate	5x pro s
Step response time	320 ms (10...90 %), adjustable (250 ms...32 s)	Supply voltage	12...50 V DC
Temperature coefficient	$\leq 0.02\%$ / °C	Type of connection	Screw connection

Insulation coordination

EMC standards	DIN EN 61326	Impulse withstand voltage	4 kV (1.2/50 μ s)
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 6.2	27-21-09-90	eClass 7.1	27-21-09-90

Product information

Descriptive text technical data	PE connection direct on enclosure
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Approvals

Approvals



ROHS	Conform
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Downloads

Declaration of Conformity	K_459_07_11.pdf
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Drawings

Electric symbol

