

ACT20P-PRO-RTCI-AO-DO-S**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image****ACT20P: The flexible solution**

- Precise and highly functional signal converters
- Release levers simplify handling

General ordering data

Version	Temperature converter, Limit value monitoring, universal, Input: temperature (RTD), Analogue output, Relay output
Order No.	2448 100000
Type	ACT20P-PRO-RTCI-AO-DO-S
GTIN (EAN)	4050118462241
Qty.	1 pc(s).

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Technical data**Dimensions and weights**

Depth	113.7 mm	Depth (inches)	4.476 inch
Height	119.2 mm	Height (inches)	4.693 inch
Net weight	194 g	Width	12.5 mm
Width (inches)	0.492 inch		

Temperatures

Storage temperature	-40 °C...85 °C
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Input

Input voltage	0...300 mV	Number of inputs	1
Potentiometer	0...120 kΩ	Resistance	0...15 kΩ
Sensor	RTD: PT100, PT200, PT500, PT1000, Ni50, Ni100, Ni120, Ni1000, Cu10, Cu25, Cu50, Cu100, RTD (2-wire): KTY83/110, KTY83/120, KTY83/150, KTY83/121, KTY83/122, KTY83/210, KTY83/220, KTY83/221, KTY83/250, KTY82/110, KTY82/120, KTY82/150, KTY82/121, KTY82/122, KTY82/210, KTY82/220, KTY82/221, KTY82/250, KTY84/130, KTY16, KTY19, ST13, ST20	Temperature input range	adjustable from -200...+850 °C

Output (digital)

Alarm function	configurable, Top and bottom limit values, window range, Short circuit at input, Alarm delay: 0...99 s, Hysteresis 5% / 10%	Number of digital outputs	1
Rated switching current	100 mA	Rated switching voltage	24 VDC ±30%
Type	NPN-Transistor, Switching frequency 5 kHz		

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Output (analogue)

Load resistance current	Load resistance voltage	> 1 k Ω (60 VAC < U _{in} < 230 VAC), > 5 k Ω (24 VAC < U _{in} < 60 VAC)
$\leq 600 \Omega$		
Number of analogue outputs	Output current	configurable, 0(4)...20 mA, -20...+20 mA, ± 10 mA, upscale (23 mA), downscale (3,5 mA)
1		
Output voltage	Signal output	
configurable, 0(1)...5 V, 0(2)...10 V, downscale (0 V), upscale (11 V), -5...+5 V, -10...+10 V		direct or inverted
Transmit function	Type (analogue output)	Voltage and current output (configurable), Active/passive
linear, $\sqrt{X}$, X^1 , $X^{1.5}$, X^2 , $X^{2.5}$, 1-X, -5...+5 % of output span (TRIM)		

Display

Display value	Configuration data and process data (input/output) in operation	Type	Dot-matrix display with ticker text, green
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General data

Accuracy	≤ 0.05 % of span	Configuration	with push-buttons and display
Galvanic isolation	4-way isolator, between input/output/supply	Included in delivery	Converter, Instruction sheet
Power consumption	≤ 2.6 W	Rail	TS 35
Step response time	10 ms, 2- / 4- wire: 320 ms, 3- wire / Poti: 640 ms	Temperature coefficient	≤ 0.01 % / °C
Type of connection	Screw connection	Voltage supply	24...230 V AC +20 % / -10 %

Insulation coordination

EMC standards	EN 61326-1	Galvanic isolation	4-way isolator, between input/output/supply
Impulse withstand voltage	5 kV (1.2/50 μ s)	Insulation voltage	4 kV _{eff} / 1 min.
Pollution severity	2	Rated voltage	600 V
Surge voltage category	II		

Connection data

Type of connection	Screw connection	Tightening torque, min.	0.4 Nm
Tightening torque, max.	0.6 Nm	Clamping range, rated connection	2.5 mm ²
Clamping range, min.	0.5 mm ²	Clamping range, max.	2.5 mm ²
Wire connection cross section AWG, min.	AWG 26	Wire connection cross section AWG, max.	AWG 12

Classifications

ETIM 6.0	EC002919	ETIM 7.0	EC002919
ECLASS 9.0	27-21-01-29	ECLASS 9.1	27-21-01-29
ECLASS 10.0	27-21-01-29	ECLASS 11.0	27-21-01-29

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Technical data**Important note**

Product information

The universal, configurable resistance measuring transducer ACT20P-PRO-RTCI-AO-DOS converts 2- / 3- / 4-wire ohmic resistance and potentiometers into an active or passive standard current signal or an active voltage signal. For set point Limit Monitoring the device is equipped with an digital NPN Output. The universal power supply can be powered up from 24Vuc...230Vuc. The device can be configured via the display.

Features

- universal wide range supply
- universal configurability, LED- Display by touch key
- Active or passive signal output
- Digital NPN transistor output
- Operating status display via frontside LED
- Galvanic 4-way isolation between Input, analogue, digital output and supply

Approvals

Approvals



ROHS

Conform

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Engineering Data

[STEP](#)

Engineering Data

[EPLAN](#)

User Documentation

[Instruction sheet](#)

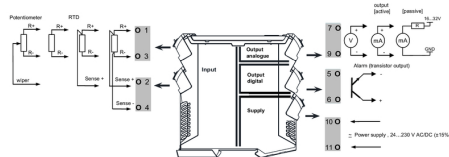
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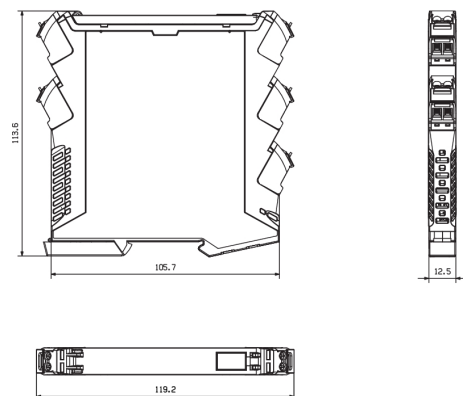
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Drawings

Connection diagram



Dimensioned drawing



Dimensioned drawing