

**ACT20P-PRO-RTCI-AO-DO-S**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany

www.weidmueller.com

**Product image**

Product currently not yet available

**ACT20P: The flexible solution**

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

**General ordering data**

Version	Signal converter/insulator, Temperature, Resistance, Potentiometer, I/U universal, Transistor (Alarm)
Order No.	<a href="#">2448 100000</a>
Type	ACT20P-PRO-RTCI-AO-DO-S
GTIN (EAN)	4050118462241
Qty.	1 pc(s).

Creation date January 27, 2023 11:10:10 AM CET

Catalogue status 24.01.2023 / We reserve the right to make technical changes.

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

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Technical data**
**Dimensions and weights**

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

**Temperatures**

Storage temperature	-40 °C...85 °C	Humidity	5...95 %, no condensation
---------------------	----------------	----------	---------------------------

**Probability of failure**

SIL in compliance with IEC 61508	None
----------------------------------	------

**Input**

Number of inputs	1	Potentiometer	10... 150 kΩ
Resistance		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	0... 15 kΩ adjustible from -200... +850 °C		

**Output**

Load impedance current	Type	active (as current source) or passive (as current sink), connected control can be active / passive
≤ 600 Ω		

**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		

## ACT20P-PRO-RTCI-AO-DO-S

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

### Output (analogue)

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

### Display

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

### 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
Long-term drift	0.1 % / 10.000 h	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 μs)	Insulation voltage	4 kV <sub>eff</sub> / 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 <sup>2</sup>
Clamping range, min.	0.5 mm <sup>2</sup>	Clamping range, max.	2.5 mm <sup>2</sup>
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
ETIM 8.0	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	ECLASS 12.0	27-21-01-29

Creation date January 27, 2023 11:10:10 AM CET

Catalogue status 24.01.2023 / We reserve the right to make technical changes.

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

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Technical data****Environmental Product Compliance**

REACH SVHC	Lead 7439-92-1
SCIP	2f6dd957-421a-46db-a0c2-cf1609156924

**Important note**

Product information	<p>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.</p> <p>Features</p> <ul style="list-style-type: none"> <li>• universal wide range supply</li> <li>• universal configurability, LED- Display by touch key</li> <li>• Active or passive signal output</li> <li>• Digital NPN transistor output</li> <li>• Operating status display via front-sided LED</li> <li>• Galvanic 4-way isolation between Input, analogue, digital output and supply</li> </ul>
---------------------	---

**Approvals**

Approvals



ROHS	Conform
------	---------

**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">Declaration of Conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a>
User Documentation	<a href="#">Instruction sheet</a> <a href="#">Configuration manual</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>



**ACT20P-PRO-RTCI-AO-DO-S**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany

**Drawings**

[www.weidmueller.com](http://www.weidmueller.com)

