

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

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Product image**ACT20P: The flexible solution**

- Precise and highly functional signal converters
- Simple configuration via display (Pro DCDC II), FDT/DTM software or DIP switch
- Release levers simplify handling
- More space in the control cabinet, from 12.5 mm wide for two channels

General ordering data

Type	ACT20P-PRO-RTCI-AO-DO-S
Order No.	2448100000
Version	Temperature converter, Limit value monitoring, Signal converter/isolator, universal, Input: temperature (RTD), Analogue output, Relay output
GTIN (EAN)	4050118462241
Qty.	1 pc(s).

ACT20P

ACT20P-PRO-RTCI-AO-DO-S

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com

Technical data

Dimensions and weights

Width	12.5 mm	Width (inches)	0.492 inch
Height	117.2 mm	Height (inches)	4.614 inch
Depth	113.7 mm	Depth (inches)	4.476 inch
Net weight	194 g		

Temperatures

Storage temperature, max.	85 °C	Storage temperature, min.	-40 °C
Operating temperature		Ambient temperature	-25 °C...+70 °C
Storage temperature	-40 °C...85 °C		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
------------	----------------

Input

Number of inputs		Sensor	PT100 / 2-/3-/4-wire, PT200, PT500, N50, N100, P 1K, N 1K, KT16, KT81, KT82, KT83, KT84, ST13, ST20
	1		
Input resistance	0...15 kΩ	Temperature input range	adjustable from -200... +850 °C
Potentiometer	10...150 kΩ		

Display

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

General data

Accuracy	< ±0.1 % of span, ≤ 2 °C (PT100)	Configuration	with push-buttons and display
Power consumption	≤ 2.6 W	Rail	TS 35
Step response time	2- / 4- wire: 320 ms; 3- wire / Poti: 640 ms	Temperature coefficient	≤ 0.02 % / °C, ≤ 200 ppm/ K
Voltage supply	24...230 V DC ±15%, 24... 230 V AC ±15% @48...62 Hz		

Insulation coordination

EMC standards	EN 61326-1	Impulse withstand voltage	5 kV (1.2/50 μs)
Insulation voltage	4 kV _{eff} / 1 min.	Pollution severity	2
Rated voltage	600 V	Surge voltage category	II

ACT20P

ACT20P-PRO-RTCI-AO-DO-S

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com

Technical data

Output (analogue)

Load resistance current		Load resistance voltage	$> 1 \text{ k}\Omega$ ($60 \text{ VAC} < U_{in} < 230 \text{ VAC}$), $> 5 \text{ k}\Omega$ ($24 \text{ VAC} < U_{in} < 60 \text{ VAC}$)
	$\leq 600 \Omega$		
Output current	configurable, 0(4)...20 mA, -20...+20 mA, $\pm 10 \text{ mA}$, 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		Type (analogue output)	Voltage and current output (configurable), Active/passive
	direct or inverted		

Output (digital)

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

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 30	Wire connection cross section AWG, max.	AWG 14

Classifications

ETIM 6.0	EC002919	eClass 6.2	27-21-01-07
eClass 9.0	27-21-01-29	eClass 9.1	27-21-01-29

Product information

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 front-sided LED • Galvanic 4-way isolation between Input, analogue, digital output and supply
---------------------	---

Approvals

Approvals



ROHS

Conform

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

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com

Technical data

Downloads

Approval/Certificate/Document of
Conformity

[Declaration of Conformity](#)

Engineering Data

[EPLAN](#)

Engineering Data

[STEP](#)

User Documentation

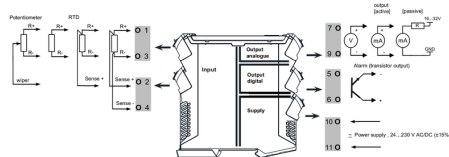
[Instruction sheet](#)

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

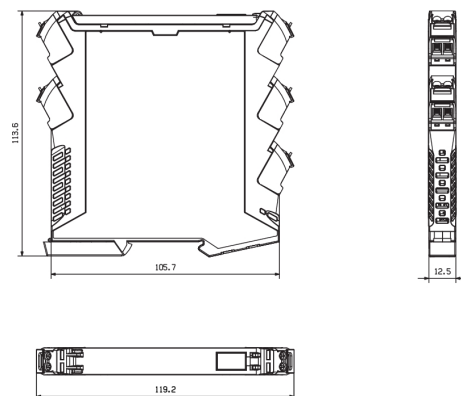
Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Drawings

Connection diagram



Dimensioned drawing



Dimensioned drawing