

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

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Similar to illustration****ACT20P: The flexible solution**

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

General ordering data

Version	Temperature converter, Limit value monitoring, Input : Temperature, Resistance, Potentiometer, Output : I/U universal, Transistor (Alarm), Temperature converter, Limit value monitoring
Order No.	2448110000
Type	ACT20P-PRO-RTCI-AO-DO-P
GTIN (EAN)	4050118462234
Qty.	1 pc(s).

ACT20P-PRO-RTCI-AO-DO-P**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	127.1 mm	Height (inches)	5.004 inch
Width	12.5 mm	Width (inches)	0.492 inch
Net weight	999 g		

Temperatures

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

Input

Input resistance	0...15 kΩ	Input voltage	0...300 mV
Note, technical data 1	see details in instruction sheet	Number of inputs	1
Potentiometer	500 Ω...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, Thermocouples: B, E, J, K, L, N, R, S, T,U, L	Temperature input range	adjustable from -200...+850 °C

Output

Type	active (as current source) or passive (as current sink), connected control can be active / passive
------	--

Output (digital)

Alarm function	configurable, Top and bottom limit values, window range, Short circuit at input, Alarm delay: 0...10 s, Hysteresis: 10 V	Max. switching frequency	≤ 5 kHz
Number of digital outputs	1	Rated switching current	100 mA
Rated switching voltage	24 VDC ±30%	Switch-on delay	0...180 s, 50 ms ... 7.5 s
Type	NPN-Transistor, Switching frequency 5 kHz		

ACT20P-PRO-RTCI-AO-DO-P

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

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)
$\leq 600 \Omega$	Output current	configurable, 0(4)...20 mA, -20...+20 mA, ± 10 mA, upscale (23 mA), downscale (3,5 mA)
Number of analogue outputs	Signal output	direct or inverted
1	Type (analogue output)	Voltage and current output (configurable)
Output voltage		
configurable, 0(1)...5 V, 0(2)...10 V, -5...+5 V, -10...+10 V, downscale (0 V), upscale (11 V)		
Transmit function		
linear, \sqrt{X} , X^1 , $X^{1.5}$, X^2 , $X^{2.5}$, 1-X, -5...+5 % of output span (TRIM)		

General data

Accuracy	$\leq \pm 0.1$ % of span, ≤ 0.2 °C (PT100)	Configuration	with push-buttons and display
Galvanic isolation	4-way isolator, between input / output / supply	Included in delivery	Transducer, Instruction sheet
Long-term drift	0.1 % / 10.000 h	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 $\pm 15\%$, 110 - 230 V AC / 60-50 Hz

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	PUSH IN	Clamping range, rated connection	2 mm ²
Clamping range, min.	0.5 mm ²	Clamping range, max.	2 mm ²
Wire connection cross section AWG, min.	AWG 26	Wire connection cross section AWG, max.	AWG 14
Wire cross-section, solid, min.	0.2 mm ²	Wire cross-section, solid, max.	2.5 mm ²
Wire connection cross section, finely stranded, min.	0.2 mm ²	Wire connection cross section, finely stranded, max.	2.5 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.2 mm ²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	2.5 mm ²

Classifications

ETIM 6.0	EC002919	ETIM 7.0	EC002919
ETIM 8.0	EC002919	ETIM 9.0	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	ECLASS 13.0	27-21-01-29

ACT20P-PRO-RTCI-AO-DO-P**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"> • 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
------	---------

Downloads

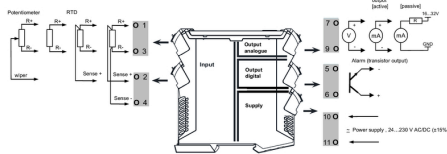
Approval/Certificate/Document of Conformity	UL certification DNV certification Bureau Veritas certification IECEX certification Declaration of Conformity
Engineering Data	CAD data – STEP
User Documentation	Instruction sheet Configuration manual
Catalogues	Catalogues in PDF-format

ACT20P-PRO-RTCI-AO-DO-P

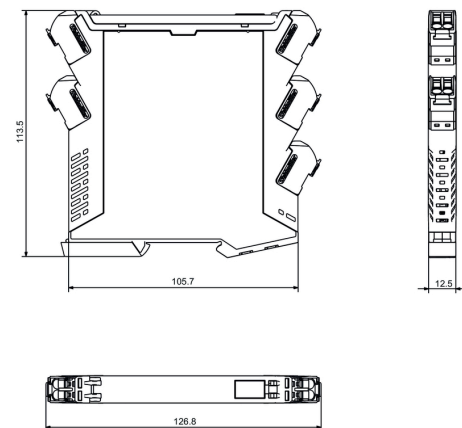
Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

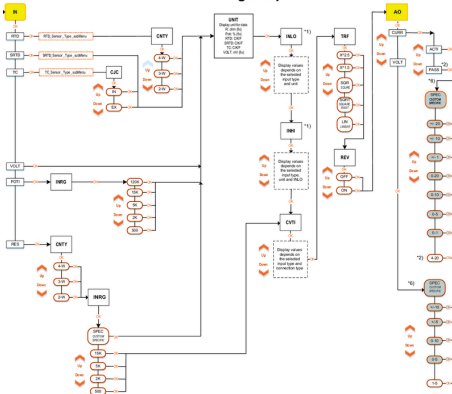
Drawings



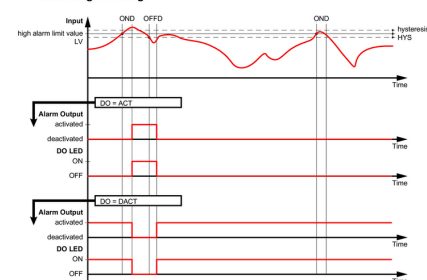
Dimensioned drawing



Flow diagram part



Measuring overrange



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

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Accessories****Blank**

ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.

Various types are available for devices from manufacturers like Siemens, ABB, Beckhoff etc.

Advantages at a glance:

- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Type	ESG 8/13.5/43.3 SAI AU	Version
Order No.	1912130000	ESG, Device markers x 13.5 mm, PA 66, Colour: Transparent
GTIN (EAN)	4032248541164	
Qty.	5 pc(s).	

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

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Accessories****Blank**

ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.

Various types are available for devices from manufacturers like Siemens, ABB, Beckhoff etc.

Advantages at a glance:

- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Type	ESG 6.6/11 BHZ 5.00/02	Version
Order No.	1082490000	ESG, Device markers x 11 mm, PA 66, Colour: white
GTIN (EAN)	4032248845330	
Qty.	200 pc(s).	

ACT20P-PRO-RTCI-AO-DO-P

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

www.weidmueller.com

Drawings

