

ACT20P-TMR-RTI-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	Limit value monitoring, Input : Temperature, PT100, Output : 2 x relays, Signal converter/isolator
Order No.	7760054305
Type	ACT20P-TMR-RTI-S
GTIN (EAN)	6944169747311
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	114.3 mm	Depth (inches)	4.5 inch
Height	119.2 mm	Height (inches)	4.693 inch
Width	22.5 mm	Width (inches)	0.886 inch
Net weight	110 g		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-25 °C...65 °C
Humidity	5-95% relative humidity, T _u = 40°C, without condensation		

Input

Number of inputs	1	Resistance	PTC: 0...4 kΩ
Sensor	PT100 (2-/3-/4- wire), PTC resistor (2- wire)	Temperature input range	Configurable, PT100: -200°C...850 °C

Output (digital)

Alarm function	Alarm range: -200...850 °C, Limit values: high, low, window, Hysteresis: 2 °C (adjustable), Window range: min. 20 °C, Alarm delay: 0...10 s	Max. switching frequency	20 Hz
Max. switching voltage, AC	250 V	Max. switching voltage, DC	30 V
Number of digital outputs	1	Rated switching current	5 A
Type	2 x 1 - or 1 x 2 changeover contact relay		

General data

Accuracy	0.2% FSR, ≤ 2 °C (PT100), ≤ 8 Ω (PTC)	Configuration	With FDT/DTM software, Requires configuration adapter 8978580000 CBX200 USB
Galvanic isolation	3-way isolator, between input/output/supply	Long-term drift	0.1 % / 10.000 h
Power consumption	≤ 100 mA @ 24 VDC, ≤ 120mA @ 24V AC	Rail	TS 35
Step response time	≤ 500 ms	Temperature coefficient	≤ 100 ppm/K
Voltage supply	20...264 VUC		

Insulation coordination

EMC standards	IEC 61326-1	Galvanic isolation	3-way isolator, between input/output/supply
Impulse withstand voltage	4 kV (1.2/50 μs)	Insulation voltage	2 kV (Input /Output), 1 min, 50 Hz
Pollution severity	2	Rated voltage	300 V
Surge voltage category	III		

Data for Ex applications (ATEX)

Marking	II 3 G Ex ec nC IIC T5 Gc
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Creation date April 29, 2024 2:35:25 PM CEST

Catalogue status 20.04.2024 / We reserve the right to make technical changes.

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Technical data**Connection data**

Type of connection	Screw connection	Tightening torque, min.	0.4 Nm
Tightening torque, max.	0.6 Nm	Clamping range, rated connection	1.5 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
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

Environmental Product Compliance

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

Important note

Product information	<p>The ACT20P-TMR-RTI-S device records temperature sensor signals (Pt100, PTC). It has two independent relay outputs which emit an alarm when levels exceed or fall below pre-set temperature limits.</p> <p>Features</p> <ul style="list-style-type: none"> • Configuration and monitoring are performed via FDT/DTM-Software „WI-Manager“. • Operational status and relay status indicated by front panel LEDs. • 4-way galvanic isolation between input, output and power supply.
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Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E338066

Downloads

Approval/Certificate/Document of Conformity	Application notes – ATEX Certification Application notes – IECEx Certification Application notes – Declaration of Conformity
Engineering Data	CAD data – STEP
Software	WI-Manager, DTM-Library for online installation Release notes for Weidmueller FDT-DTM Software version
User Documentation	Instruction sheet 20210120 Security Advisory - WI-Manager affected by MundM Software fdtCONTAINER vulnerability
Catalogues	Catalogues in PDF-format

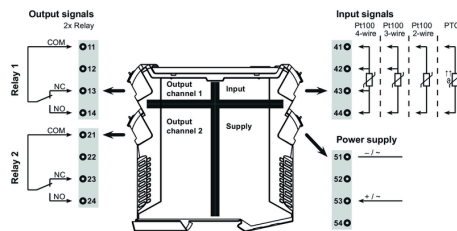
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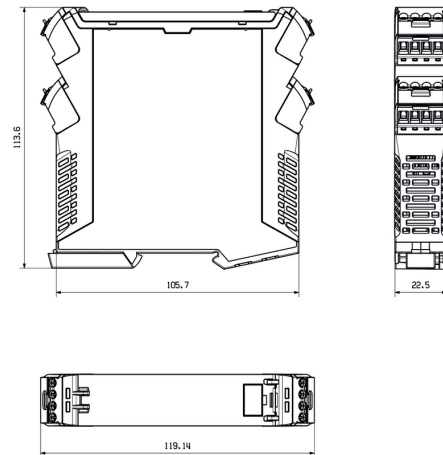
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Drawings

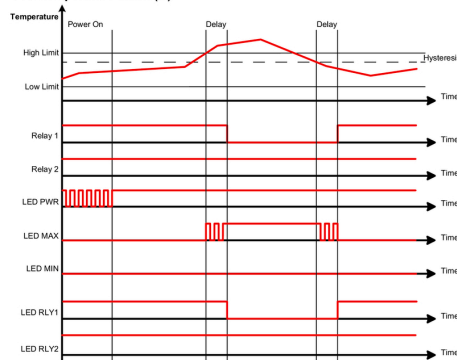
Connection diagram



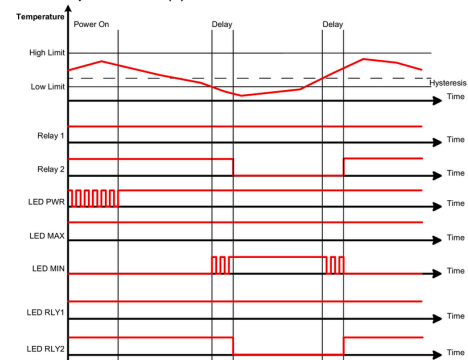
Dimensioned drawing



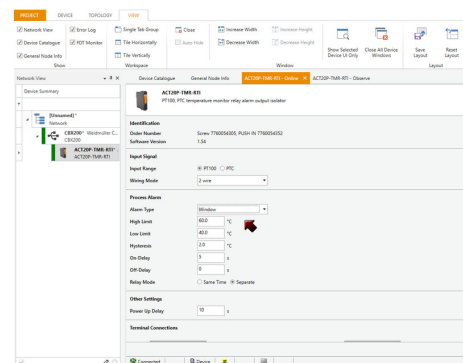
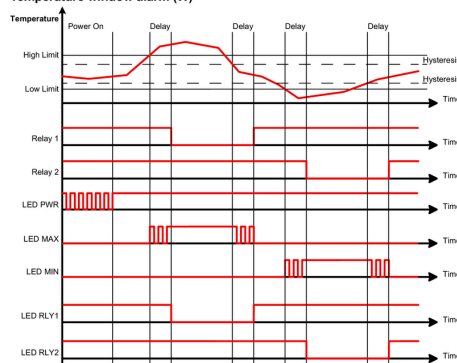
Over-temperature alarm (O)



Under-temperature alarm (U)



Temperature window alarm (W)



screenshot of configuration with FDT2 / DTM software

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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 6.6/20 BHZ 5.00/04	Version
Order No.	1082540000	ESG, Device markers x 20 mm, PA 66, Colour: white
GTIN (EAN)	4032248845439	
Qty.	200 pc(s).	

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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).	

Configuration interfaces**General ordering data**

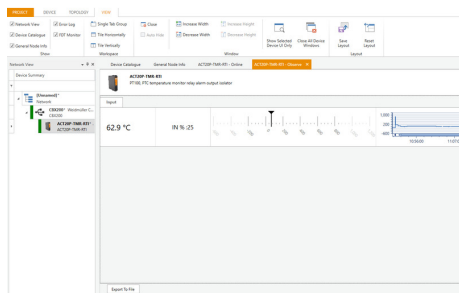
Type	CBX200 USB
Order No.	8978580000
GTIN (EAN)	4032248813759
Qty.	1 pc(s).

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screenshot of "observe" with FDT2 / DTM software