

**ACT20P-TMR-RTI-S**

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

www.weidmueller.com



**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
Order No.	<a href="#">7760054305</a>
Type	ACT20P-TMR-RTI-S
GTIN (EAN)	6944 169747311
Qty.	1 items

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## Technical data

### Approvals

Approvals



ROHS	Conform
UL File Number Search	<a href="#">UL Website</a>
Certificate no. (cULus)	E338066

### Dimensions and weights

Depth	114.3 mm	Depth (inches)	4.5 inch
Height	119.2 mm	Height (inches)	4.6929 inch
Width	22.5 mm	Width (inches)	0.8858 inch
Net weight	110 g		

### Temperatures

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

### Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cI
REACH SVHC	Lead 7439-92-1
SCIP	2f6dd957-421a-46db-a0c2-cf1609156924

### Input

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

### Output (digital)

Rated switching current	5 A	Number of digital outputs	1
Max. switching voltage, AC	250 V	Max. switching voltage, DC	30 V
Type	2 x 1 - or 1 x 2 changeover contact relay	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

### General data

Accuracy	0.2% FSR, ≤ 2 °C (PT100), ≤ 8 Ω (PTC)	Protection degree	IP20
Supply voltage	20...264 VUC	Long-term drift	0.1 % / 10.000 h
Step response time	≤ 500 ms	Mounting rail	TS 35
Power consumption	≤ 100 mA @ 24 VDC, ≤ 120mA @ 24V AC	Temperature coefficient	≤ 100 ppm/K
Nominal power consumption	3 VA	Configuration	With FDT/DTM software, Requires configuration

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Operating altitude	≤ 2000 m	adapter 8978580000 CBX200 USB
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### Insulation coordination

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

### Data for Ex applications (ATEX)

Marking	II 3 G Ex ec nC IIC T5 Gc	IECEx - gas labelling	Ex ec nC IIC T5 Gc
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### 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 <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

### Part description

Product description	<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"> <li>• Configuration and monitoring are performed via FDT/DTM-Software „WI-Manager“.</li> <li>• Operational status and relay status indicated by front panel LEDs.</li> <li>• 4-way galvanic isolation between input, output and power supply.</li> </ul>
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### Classifications

ETIM 8.0	EC002919	ETIM 9.0	EC002919
ETIM 10.0	EC002919	ECLASS 14.0	27-21-01-29
ECLASS 15.0	27-21-01-29		

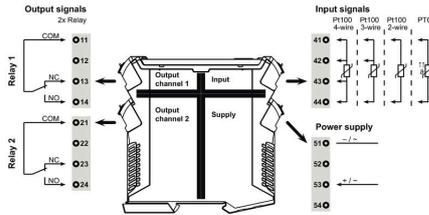
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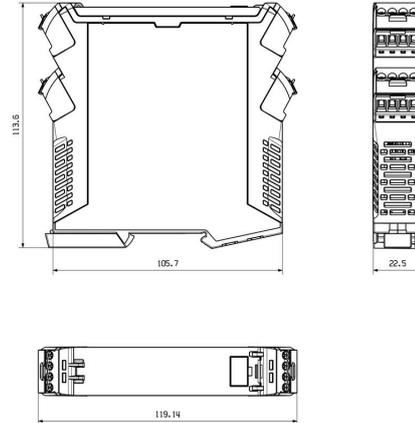
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**Drawings**

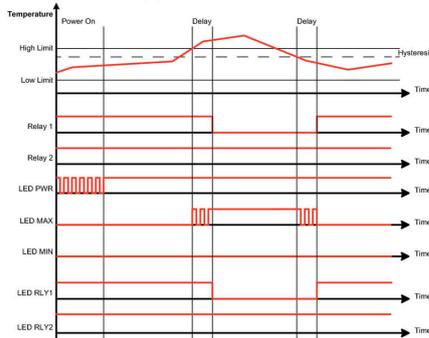
**Connection diagram**



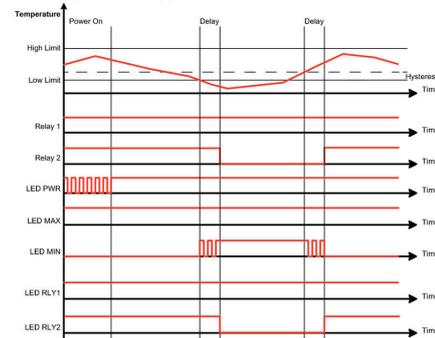
**Dimensioned drawing**



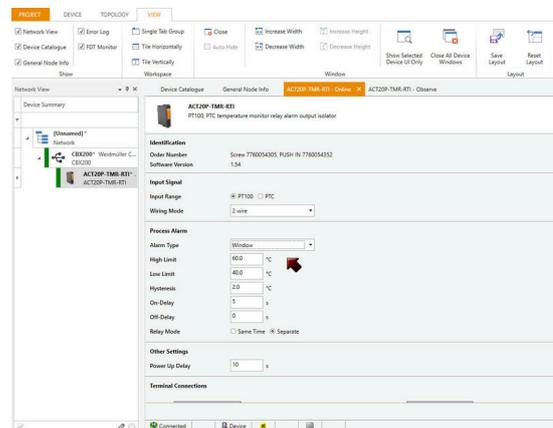
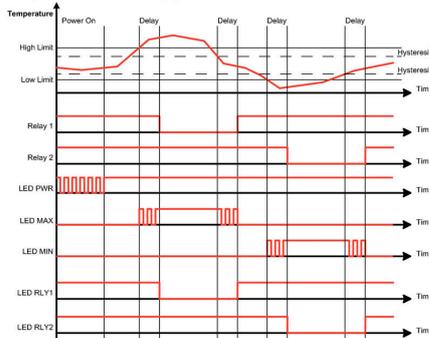
**Over-temperature alarm (O)**



**Under-temperature alarm (U)**



**Temperature window alarm (W)**



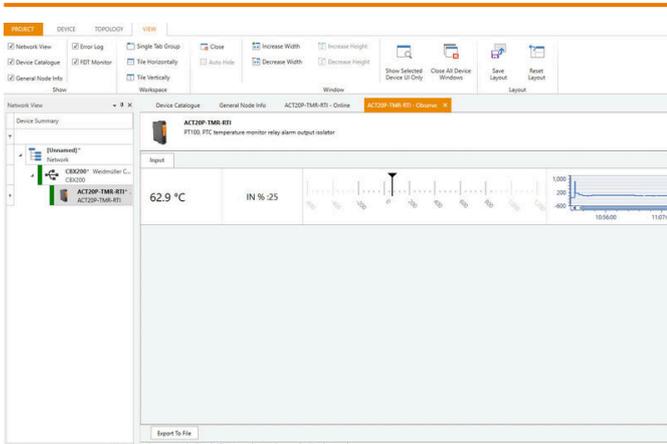
screenshot of configuration with FDT2 / DTM software

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## Drawings



screenshot of "observe" with FDT2 / DTM software

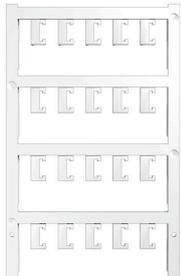
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## Accessories

### 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.	<a href="#">1082540000</a>	ESG, Device markers x 20 mm, PA 66, Colour: white, pluggable	
GTIN (EAN)	4032248845439		
Qty.	200 ST		
Type	ESG 8/13.5/43.3 SAI AU	Version	
Order No.	<a href="#">1912130000</a>	ESG, Device markers x 13.5 mm, PA 66, Colour: Transparent, pluggable	
GTIN (EAN)	4032248541164		
Qty.	5 ST		

### Configuration interfaces



### General ordering data

Type	CBX200 USB	Version	
Order No.	<a href="#">8978580000</a>		
GTIN (EAN)	4032248813759		
Qty.	1 ST		