

**ACT20P-TMR-RTI-S****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image****FDT2****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)	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 <sub>u</sub> = 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	Protection degree	IP20
Rail	TS 35	Step response time	≤ 500 ms
Temperature coefficient	≤ 100 ppm/K	Voltage supply	20...264 VUC

**Insulation coordination**

EMC standards	EN 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 July 2, 2024 11:22:24 PM CEST

Catalogue status 29.06.2024 / 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 <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	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"> <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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### Approvals

Approvals



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

### Downloads

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

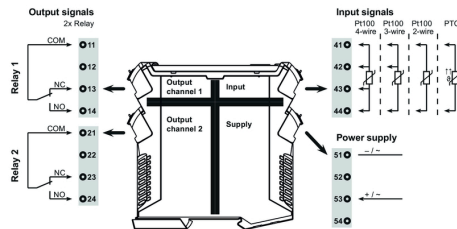
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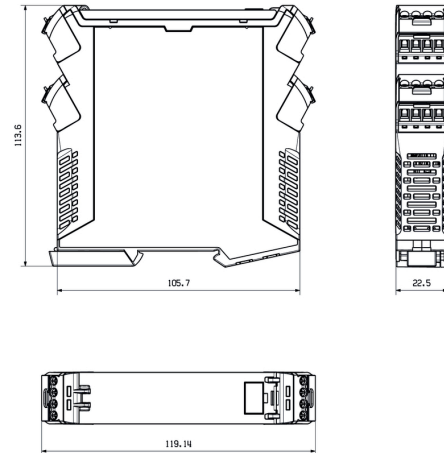
[www.weidmueller.com](http://www.weidmueller.com)

## Drawings

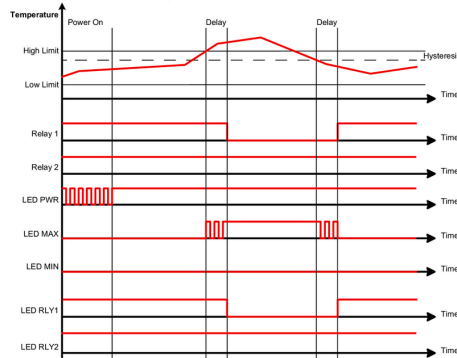
### Connection diagram



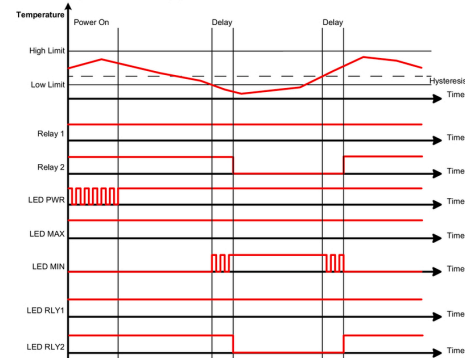
### Dimensioned drawing



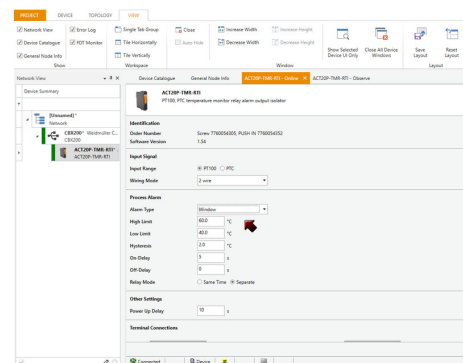
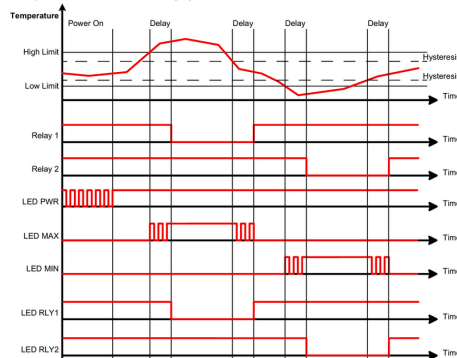
#### Over-temperature alarm (O)



#### Under-temperature alarm (U)



#### Temperature window alarm (W)



screenshot of configuration with FDT2 / DTM software

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[www.weidmueller.com](http://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.	<a href="#">1082540000</a>	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.	<a href="#">1912130000</a>	ESG, Device markers x 13.5 mm, PA 66, Colour: Transparent
GTIN (EAN)	4032248541164	
Qty.	5 pc(s).	

**Configuration interfaces****General ordering data**

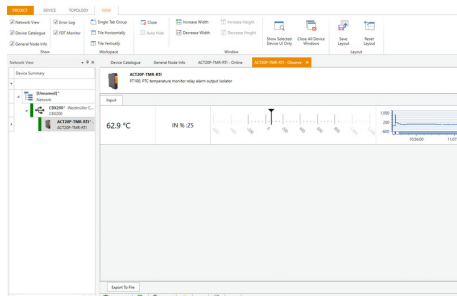
Type	CBX200 USB
Order No.	<a href="#">8978580000</a>
GTIN (EAN)	4032248813759
Qty.	1 pc(s).

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# Drawings



screenshot of "observe" with FDT2 / DTM software