

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

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image****General ordering data**

Version	Limit value monitoring, Input: temperature (RTD), Relay output
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
Net weight	110 g	Width	22.5 mm
Width (inches)	0.886 inch		

Temperatures

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

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Input

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

Output

Number of outputs	2
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Output (digital)

Alarm function	Alarm range: -200... 850 °C, Top and bottom limit values, window range, Hysteresis: 2 °C (adjustable), Alarm delay: 0...10 s	Max. switching voltage, AC	250 V
Max. switching voltage, DC	30 V	Number of digital outputs	2
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
Galvanic isolation	3-way isolator, between input / output / supply	Power consumption	≤ 100 mA @ 24 VDC, ≤ 120mA @ 24V AC
Rail	TS 35	Step response time	≤ 500 ms
Temperature coefficient	≤ 100 ppm/K	Type of connection	Screw connection
Voltage supply	20...264 VUC		

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Technical data

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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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
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

Important note

Product information 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.

Features

- 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.

Approvals

Approvals



ROHS	Conform
UL File Number Search	E338066

Downloads

Approval/Certificate/Document of Conformity	ATEX Certification IECEx Certification Declaration of Conformity
Engineering Data	STEP
Software	WI-Manager, DTM-Library for online installation V.1.2.2
User Documentation	Instruction sheet

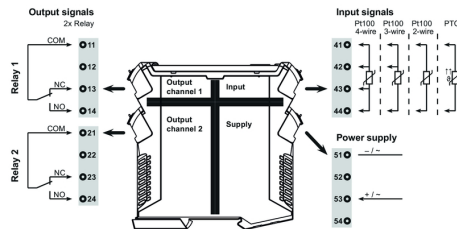
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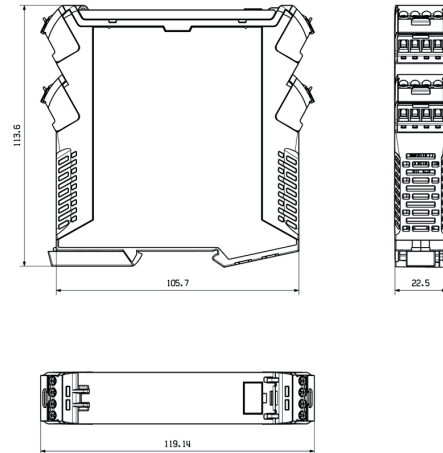
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Drawings

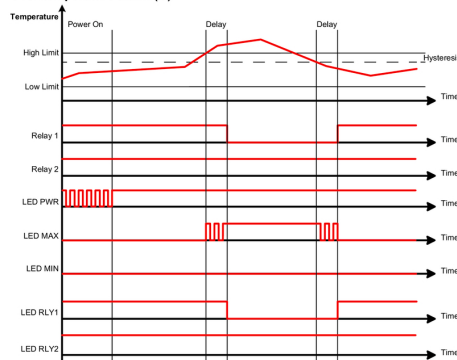
Connection diagram



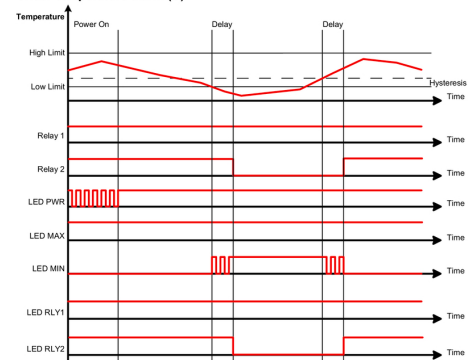
Dimensioned drawing



Over-temperature alarm (O)



Under-temperature alarm (U)



Temperature window alarm (W)

