

ACT20P-UI-2RCO-DC-S**Weidmüller Interfaces GmbH & Co. KG**

Postfach 3030

32760 Detmold

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Product image**General ordering data**

Version	Limit value monitoring, Input: temperature, R, U, I, Relay output, 24 V DC power supply, universal U, I, R, 9, 2 x relays
Order No.	7940045760
Type	ACT20P-UI-2RCO-DC-S
GTIN (EAN)	4050118278507
Qty.	1 pc(s).

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Technical data**Dimensions and weights**

Depth	113.6 mm	Depth (inches)	4.473 inch
Height	119.2 mm	Height (inches)	4.693 inch
Width	22.5 mm	Width (inches)	0.886 inch
Net weight	201 g		

Temperatures

Storage temperature	-20 °C...70 °C	Operating temperature	-20 °C...70 °C
Humidity	10...90 %, no condensation		

Probability of failure

SIL in compliance with IEC 61508	None
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Environmental Product Compliance

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

Cable-length compensation	< ±0.002 Ω per cable resistance Ω	Influence of the sensor cable resistance	5 Ω @ RTD- Kabel
Input current	configurable, ± 25 mA DC, ±5 A DC	Input resistance, current	40 Ω
Input resistance, voltage	2 MΩ, > 10 MΩ	Input voltage	configurable, ±150 mV DC, ± 600mV DC, ±30 V DC, ±300 V DC
Number of inputs	1	Potentiometer	1.2...500 kΩ
Resistance	0...10 kΩ, 0...12 kΩ, 0...15 kΩ	Sensor	RTD (2,3-wire): Pt100, Pt200, Pt1000, Ni120, Cu10, Thermocouples: B, E, J, K, L, N, R, S, T, U
Sensor supply	0.1 mA / 0.05 mA (depending on measuring range) @ RTD cable	Supply voltage (input)	24 V (@ 4-20 mA loop)
Temperature input range	B: +100...+1820 °C, E: -270...+1000 °C, J: (-210...+1200 °C), K: -270...+1372 °C, L: +100...+900 °C, N: (-180...+1300 °C), R: -50...+1768 °C, S: -50...+1768 °C, T: -270...+400 °C, U: -200...+600 °C		

Output (digital)

Alarm function	configurable, Top and bottom limit values, window range, Alarm delay: 0...99 s, Hysteresis adjustable, auto / manual reset	Max. switching voltage, AC	240 V
Max. switching voltage, DC	110 V	Number of digital outputs	2
Rated switching current	200mA @ 110Vdc, 6A @ 24Vdc / 240Vac	Type	2 CO contacts, normal / inverse adjustment, Switching frequency 20 Hz

Creation date September 18, 2022 3:24:07 AM CEST

Catalogue status 09.09.2022 / We reserve the right to make technical changes.

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 ±2.0°C @ -20°C - 70°C

Technical data

General data

Accuracy	< 0.1 % of measuring range	Cold-junction compensation error	±2.0°C @ -20°C - 70°C
Configuration	With FDT/DTM software, or via 7-segment display, push-buttons and rotary encoder on the device itself	Galvanic isolation	4-way isolator; Input to supply / Alarm 1 / Alarm 2
Power consumption	≤ 3.5 W	Rail	TS 35
Repeat accuracy	± 0.05 % of measuring range final value	Step response time	450 ms
Temperature coefficient	< 0.02 °C of measuring range / °C	Type of connection	Screw connection
Voltage supply	9...60 V DC		

Insulation coordination

EMC standards	EN 61326-1	Galvanic isolation	4-way isolator; Input to supply / Alarm 1 / Alarm 2
Impulse withstand voltage	4 kV (1.2/50 µs)	Insulation voltage	4 kV (input / output)
Pollution severity	2	Rated voltage	300 V _{eff}
Surge voltage category	III	Test voltage	300 V

Connection data

Type of connection	Screw connection	Tightening torque, min.	0.4 Nm
Tightening torque, max.	0.6 Nm	Clamping range, rated connection	2.5 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	EC002654	ETIM 7.0	EC002654
ETIM 8.0	EC002654	ECLASS 9.0	27-21-01-22
ECLASS 9.1	27-21-01-22	ECLASS 10.0	27-21-01-22
ECLASS 11.0	27-21-01-22	ECLASS 12.0	27-21-01-22

Important note

Product information	The devices of the ACT20P-UI-2RCO-XX-x family record current, voltage, potentiometer and temperature sensor signals (mA, A, mV, V, potentiometer, RTD and TC). They have two independent relay outputs which emit an alarm when levels exceed or fall below pre-set limits. Properties • Configuration and diagnosis with the FDT/DTM software "WI-Manager". • Manual configuration on the device is performed via the LED display by means of operating buttons and rotary encoders. • The dual-channel trip amplifier enables various alarm functions: window alarm, alarm delay, wire break detection, hysteresis and upper / lower limit alarm. • The active or passive signal inputs for RTD, TC, potentiometer, voltage and current are fully galvanically isolated. • Remote diagnosis: reporting of errors (e.g. cable breaks) via status relay. • Operational status and relay status indicated by front panel LEDs. • Galvanic 4-way isolation between input, output and supply.
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Approvals



Approvals

CULUS;

ROHS

Conform

Downloads

Approval/Certificate/Document of Conformity	UL Certification Declaration of Conformity
Engineering Data	CAD data – STEP
Engineering Data	EPLAN, WSCAD
Software	Library and function block – WI-Manager, DTM-Library for online installation V.1.2.3 Release notes for Weidmueller FDT-DTM Software version 1.2.3.
User Documentation	instruction sheet 20210120 Security Advisory - WI-Manager affected by MundM Software fdtCONTAINER vulnerability
Catalogues	Catalogues in PDF-format
Brochures	

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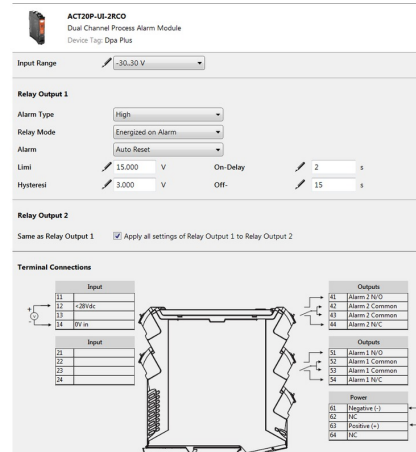
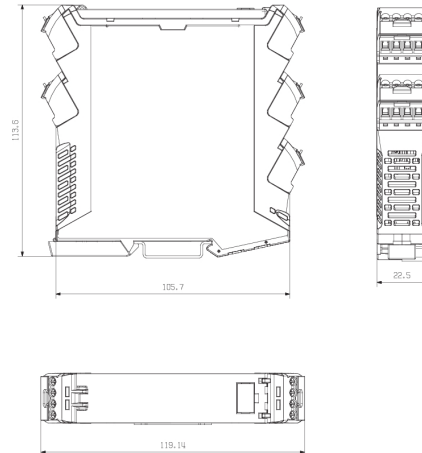
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Drawings

Dimensioned drawing info@weidmueller.com



Removable terminals



screenshot of configuration with FDT2 / DTM software

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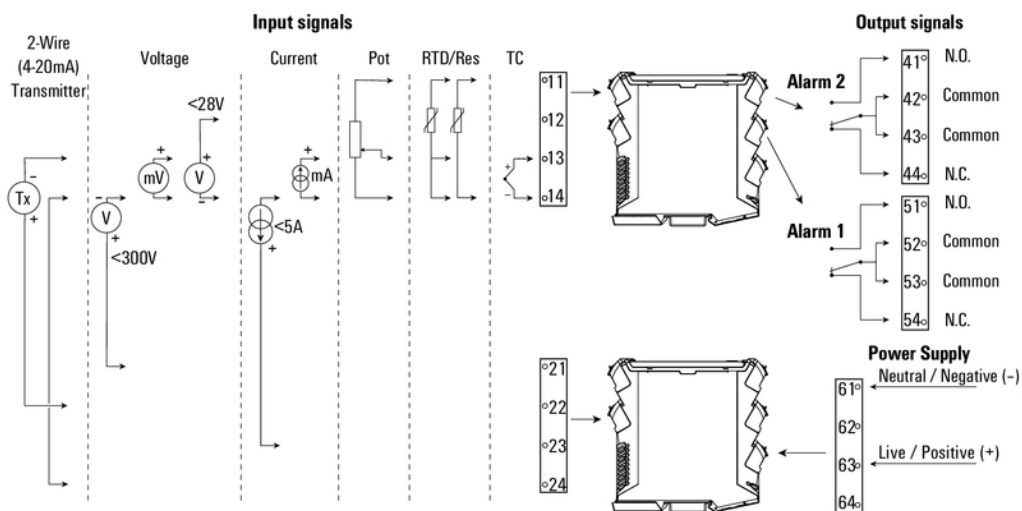
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Drawings



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