

ACT20P-UI-2RCO-AC-S**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

Version	Limit value monitoring, universal, Input: temperature, R, U, I, Relay output, 90...264 V AC power supply, 24 V (@ 4-20 mA loop)
Order No.	1238910000
Type	ACT20P-UI-2RCO-AC-S
GTIN (EAN)	4050118027075
Qty.	1 pc(s).

Creation date March 23, 2021 11:32:35 AM CET

Catalogue status 12.03.2021 / We reserve the right to make technical changes.

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Technical data**Dimensions and weights**

Depth	113.6 mm	Depth (inches)	4.472 inch
Height	119.2 mm	Height (inches)	4.693 inch
Net weight	208 g	Width	22.5 mm
Width (inches)	0.886 inch		

Temperatures

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

Probability of failure

MTBF	180 Years
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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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

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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
Type of connection	Screw connection	Voltage supply	90...264 V AC

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
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

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Technical data

Tender specification sheets

Long specification

Universal limit-value monitoring component with relay output and external supply
Universal limit-value monitoring component in 22.5 mm width with external voltage and sensor supply, for monitoring and isolating DC currents
 +/- 25mA...5 A,
 DC voltages
 +/-600 mV... 300 V,
 2-/3-/4-wire RTD sensors , resistors, potentiometers and thermocouple signals according to IEC584.
 Two relay contacts (CO) are available on the output side.
 This component is programmed using FDT/DTM software.
 Add-on housing for TS35 rail mounting
 Dimensions: L/W/H
 119/ 22.5/ 113.6 mm
 Screw connection /
 Nominal cross-section
 2.5 mm²
 Protection degree: IP 20
 Input +/-25
 mA...5 A
 DC
 +/-
 600 mV...300 V DC
 PT100, PT1000, Ni100, Ni1000
 Resistance 0...12 kOhm
 Potentiometer
 0...500 kOhm
 Thermocouple types B, E, J, K, L, LR, N, R, S, T, U, W3, W5
 Sensor supply 24 V DC
 Output
 2 x 1 CO (hard gold-plated)
 240
 V AC/ 24 V DC @ 6 A
 Repeat accuracy < 0,05 % v. E.
 Step response time < 10...90 %
 200 ms
 Auxiliary power
 90...264 V AC / 20...370 W DC
 Power loss approx. 3 W @ 240 V AC
 Ambient temperature range -20

Short specification

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Technical data**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.

Approvals

Approvals



Approvals

CULUS;

ROHS

Conform

Downloads

Approval/Certificate/Document of Conformity

[UL 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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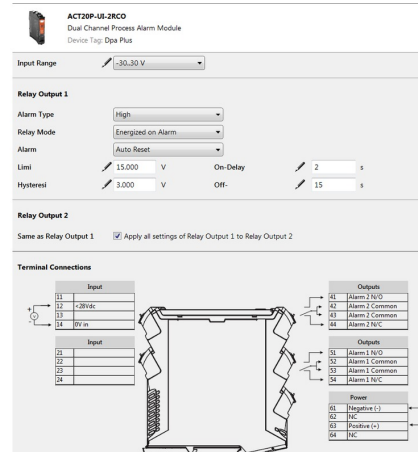
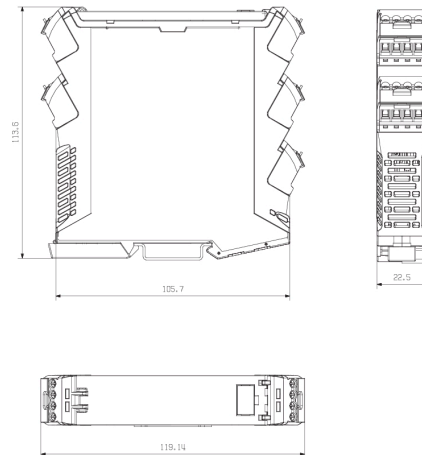
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Drawings

Dimensioned drawing



Removable terminals



screenshot of configuration with FDT2 / DTM software

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Drawings
