

MICROSERIES UTCR

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com



The limit-value monitoring modules from the R SERIES feature two relay contacts on the output side for the alarm function.

Each product version is designed for a defined type of signal and sensor. These include analogue signals such as current, voltage, temperature (thermocouple and PT100 sensors), frequency and conductivity.

Monitoring components with temperature measurement inputs are equipped with wire break detection mechanisms.

They come standard with programmable functions for setpoint, deadband, high/low-trip switching behaviour, coil energising and a variable timer delay on each channel.

The XFAR (U/I input) features extra extensions to the standard functions. This includes an optional alarm function which can be configured in connection with various input parameters, such as a change in the signal frequency, a signal loss or for individual signal formats. The XFAR is equipped with two alarm outputs for more complex applications. Each can be attached individually. The four-character LED display can be set universally. The corresponding scaling for the input parameters is then carried out automatically.

The user-friendly menus are easy to navigate and make it easy to configure the operating parameters.

Specific parameters can be selected and changed using the keyboard and display.

The monitoring components are enclosed in a rugged, rail-mountable, metal housing and feature complete isolation at 2 kV.

General ordering data

Type	UTCR
Order No.	7760000017
Version	Process monitoring, 9 ranges, adjustable
GTIN (EAN)	4032248566075
Qty.	1 pc(s).

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Technical data
Dimensions and weights

Width	46 mm	Width (inches)	1.811 inch
Height	97 mm	Height (inches)	3.819 inch
Depth	120 mm	Depth (inches)	4.724 inch
Weight	500 g	Net weight	500 g

Temperatures

Humidity	0...90 % (no condensation)	Operating temperature, max.	60 °C
Operating temperature, min.	0 °C	Storage temperature, max.	70 °C
Storage temperature, min.	-25 °C	Operating temperature	0 °C...60 °C
Storage temperature	-25 °C...70 °C		

Environmental Product Compliance

REACH SVHC Lead 7439-92-1

Input

Sensor	Thermocouples (type J,K,N,T,E,B,S,R) or mV	Input signal	9 ranges, adjustable
Input resistance	≤ 1 kΩ		

Display

Type	4 digits, red LED, 7 mm	Display range	Depends on selected input type
Display value	°C / °F or mV	Resolution (display)	1 °C / °F or 0.01 mV

alarm output

Type	2 relay contacts (CO)	Switching current	1 A @ 240 V AC / 30 V DC (resistive load)
Switching thresholds	All values in display range are configurable		

General data

Cold-junction compensation error	≤ 0.02 % / °C ambient temperature	Input/Output	Relay output
Long-term drift	0.1 % / 10.000 h	Power consumption	6 W @ 24 V DC
Rail	TS 35, TS 32	Repeat accuracy	± 0.05 % of signal range
Sampling rate	5x pro s	Step response time	320 ms (10...90 %), adjustable to 250 ms...32 s
Temperature coefficient	≤ 0.02 % / °C	Voltage supply	12...50 V DC

Insulation coordination

EMC standards	DIN EN 61326	Impulse withstand voltage	4 kV (1.2/50 μs)
Insulation voltage	2 kV input / output / power supply		

Connection data

Type of connection	Screw connection	Clamping range, rated connection	1.5 mm ²
Clamping range, min.	0.5 mm ²	Clamping range, max.	2.5 mm ²

Creation date May 1, 2020 3:06:51 PM CEST

Data sheet

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Classifications

ETIM 6.0	EC000677	ETIM 7.0	EC000677
eClass 9.0	27-14-31-10	eClass 9.1	27-21-03-01
eClass 10.0	27-14-31-10	UNSPSC	30-21-18-01

Approvals

Approvals



ROHS Conform

Downloads

User Documentation [Manual](#)

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Drawings

Electric symbol

