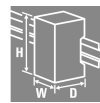


ACT20P-CML-10-AO-RC-P**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**ACT20P: The flexible solution**

- Precise and highly functional signal converters
- Release levers simplify handling

General ordering data

Version	Current-measuring transducer, Limit value monitoring, Input : 0...1/5/10 A, Analogue output, Relay output, Power cable can be connected to the terminals
Order No.	2489910000
Type	ACT20P-CML-10-AO-RC-P
GTIN (EAN)	4050118499940
Qty.	1 items

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Technical data

Approvals

Approvals CE; CULUS; DETNORVER

Approvals CULUS;

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULus) E141197

Dimensions and weights

Depth	114 mm	Depth (inches)	4.4882 inch
Height	127.1 mm	Height (inches)	5.0039 inch
Width	17.5 mm	Width (inches)	0.689 inch
Net weight	141 g		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-25 °C...60 °C
Humidity	5...95 %, no condensation		

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c, 7a, 7cl
REACH SVHC	Lead 7439-92-1
SCIP	2f6dd957-421a-46db-a0c2-cf1609156924

Input

Number inputs	1	Input frequency	AC: 15...400 Hz (true root mean square)
Input measurement range	configurable, 0...1/5/10 A AC (RMS) or DC, max. peak current 10 × I _{Input} (1 s). For DC current measurement (AA): Current direction display at the output (-/+ analog value)	Input signal	Power cable can be connected to the terminals
Overload behaviour	Max. peak current: 10 × I _{Input} for 1 s		

Output

Load impedance current	≤ 600 Ω	Type	active, connected control must be passive
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Output (digital)

Rated switching current	2 A	Continuous current	2 × I _{Input}
Number of digital outputs	1	Max. switching voltage, AC	250 V

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Max. switching voltage, DC	24 V	Type	Relay, 1 CO contact, normal / inverse adjustment
Alarm function	Surge current, Under-current, Alarm limit setting: 2 - 105 %, Hysteresis 5% / 10%, Alarm delay: 0...10 s		

Output (analogue)

Type (analogue output)	Voltage and current output (configurable)	Transmit function	direct or inverted
Output voltage	Adjustable, 0...10 V, 2...10 V, 0...5 V, 1...5 V, -5...+5 V, -10...+10 V	Load resistance voltage	≥ 10 kΩ
Number analogue outputs	1	Load resistance current	≤ 600 Ω
Output current	Adjustable, 0...20 mA, 4...20 mA, -20...+20 mA		

General data

Accuracy	≤ ±0.3 % @ 1 A / 5 A, ≤ ±0.6 % @ 10 A	Protection degree	IP20
Supply voltage	16,8 V...31,2 V	Step response time	≤ 300 ms (RMS), ≤ 60 ms (AA)
Mounting rail	TS 35	Temperature coefficient	≤ ±100 ppm/K @ -25...+55 °C, ≤ ±200 ppm/K @ +55...+70 °C
Nominal power consumption	0.9 VA	Configuration	DIP switch and potentiometer
Power consumption, max.	2.2 W		

Insulation coordination

Impulse withstand voltage	6 kV (1.2/50 μs)	EMC standards	EN 61326-1
Test voltage	4 kV	Surge voltage category	III
Pollution severity	2	Galvanic isolation	4-way isolator, between input / output / supply / relay
Insulation voltage	4 kVeff / 1 min.	Rated voltage	300 V ACrms

Connection data

Type of connection	PUSH IN	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 14
Wire cross-section, solid, min.	0.2 mm ²	Wire cross-section, solid, max.	2.5 mm ²
Wire connection cross section, finely stranded, min.	0.2 mm ²	Wire connection cross section, finely stranded, max.	2.5 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.2 mm ²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	2.5 mm ²

Part description

Product description	The device ACT20P-CML-10-AO-RC-P measures and monitors AC and DC currents of up to 10 A. The real effective value method used allows for precise measurement, even for distorted current curve shapes. The device features an integrated limit value monitoring function with an adjustable switching threshold, lag and hysteresis, as well as a relay output.
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Features

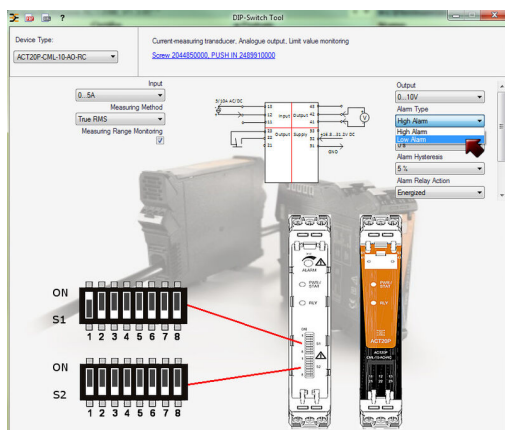
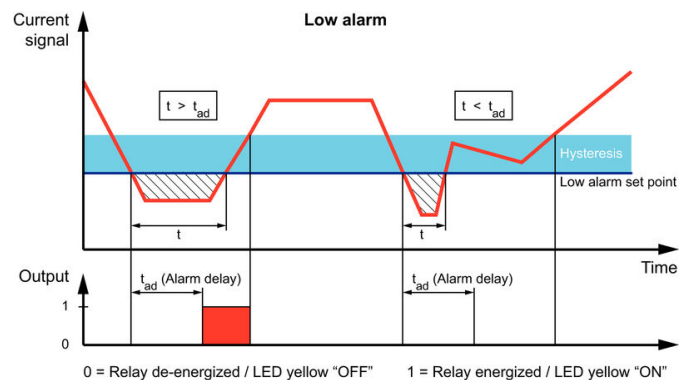
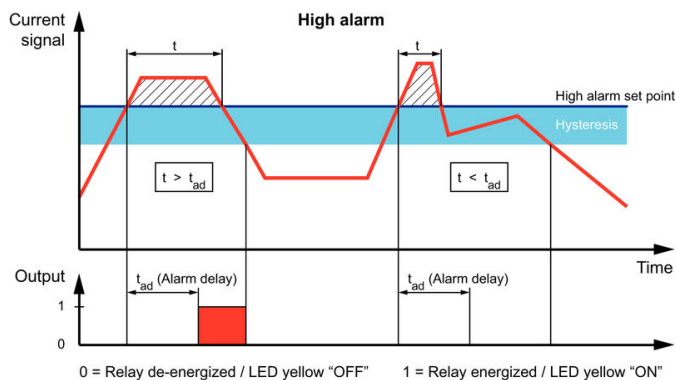
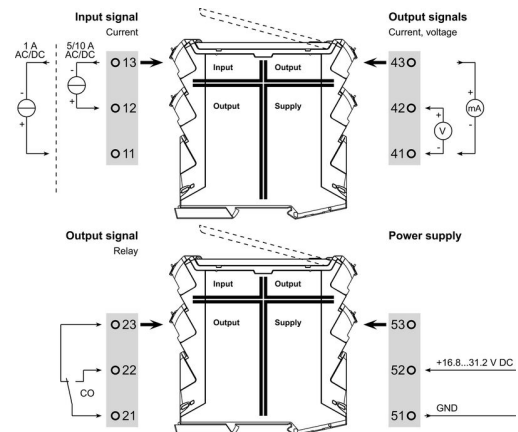
- Real effective value measurement (True RMS) or arithmetic averaging (AA) measurement
- Limit value monitoring for overcurrent or undercurrent
- Relay output by means of the open-circuit / closed-circuit principle
- Adjustable trigger delay for filtering current peaks
- Operational status and error display on a front panel LED and output signalling according to NE43, NE44, NE107
- Galvanic four-way insulation for secure isolation according to IEC/EN 61010-2-201

Classifications

ETIM 8.0	EC002475	ETIM 9.0	EC002475
ETIM 10.0	EC002475	ECLASS 14.0	27-21-01-23
ECLASS 15.0	27-21-01-23		

Drawings

Connection diagram



example for DIP switch setting (with ACT20 tool)

Configuration

	DIP switch S1							
	1	2	3	4	5	6	7	8
Current input range								
0...1 A								
0...5 A								
0...10 A								
Measuring method								
True RMS								
Arithmetic average								
Alarm delay time								
0 s								
2 s								
5 s								
10 s								
Measuring range monitoring								
Yes								
No								
Output error action								
Upscale								
Downscale								
Transfer function								
Normal								
Inverse								

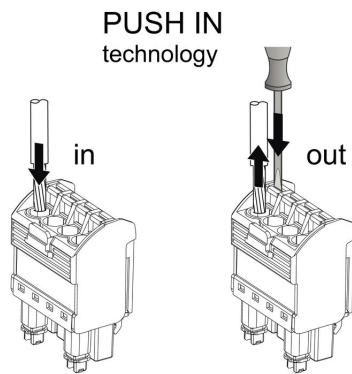
	DIP switch S2							
	1	2	3	4	5	6	7	8
Output range								
0...10 V								
2...10 V								
0...5 V								
1...5 V								
-5...+5 V								
-10...+10 V								
0...20 mA								
-4...20 mA								
-20...+20 mA								
Alarm relay action								
Energized								
De-energized								
Alarm hysteresis								
5 %								
10 %								
Alarm type								
High alarm								
Low alarm								

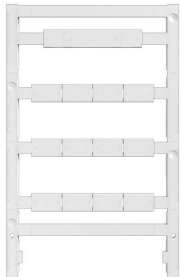
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ACT20P-CML-10-AO-RC-P**Weidmüller Interface GmbH & Co. KG**Klingenbergstraße 26
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Germanywww.weidmueller.com**Accessories****Blank**

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 8/13.5/43.3 SAI AU	Version
Order No.	1912130000	ESG, Device markers x 13.5 mm, PA 66, Colour: Transparent,
GTIN (EAN)	4032248541164	pluggable
Qty.	5 ST	
Type	ESG 6.6/15 BHZ 5.00/03	Version
Order No.	1082520000	ESG, Device markers x 15 mm, PA 66, Colour: white, pluggable
GTIN (EAN)	4032248845323	
Qty.	200 ST	