

ACT20P
ACT20P-CMT-30-AO-RC-S**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

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Germany

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www.weidmueller.com

**ACT20P: The flexible solution**

- Precise and highly functional signal converters
- Simple configuration via display (Pro DCDC II), FDT/DTM software or DIP switch
- Release levers simplify handling
- More space in the control cabinet, from 12.5 mm wide for two channels

General ordering data

Type	ACT20P-CMT-30-AO-RC-S
Order No.	1510540000
Version	Current-measuring transducer, Limit value monitoring, Signal converter/isolator, Current monitoring, Analogue output, Screw connection, Input measurement range: configurable, 0... 20/25/30 A AC (RMS) or DC
GTIN (EAN)	4050118319590
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Width	22.5 mm	Width (inches)	0.886 inch
Height	117.2 mm	Height (inches)	4.614 inch
Depth	113.6 mm	Depth (inches)	4.472 inch
Net weight	158 g		

Temperatures

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

Probability of failure

MTTF	158 Years
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Input

Number of inputs	1	Input signal	Current-carrying cable in feed-through hole, Diameter 10.5 mm
Input measurement range	configurable, 0...20/25/30 A AC (RMS) or DC	Input frequency	AC: 15...700 Hz (true root mean square), AC: 50 Hz (arithmetic average)

General data

Accuracy	< 0.75 % FSR	Configuration	DIP switch and potentiometer
Galvanic isolation	4-way isolator, between input/output/supply/relay	Mounting rail	TS 35
Power consumption, max.	2.2 W	Step response time	≤ 300 ms (RMS), ≤ 60 ms (AA)
Supply voltage	16.8 V...31.2 V	Temperature coefficient	typ. 0.04 % / K, max. 0.09 % / K

Insulation coordination

EMC standards	IEC 61326-1, IEC 61010-2-201	Galvanic isolation	4-way isolator, between input/output/supply/relay
Impulse withstand voltage	6.4 kV (1.2/50 µs)	Insulation voltage	4 kV _{eff} / 1 min.
Pollution severity	2	Rated voltage	300 V AC _{rms}
Surge voltage category	III	Test voltage	4 kV

Output (analogue)

Load resistance current	≤ 600 Ω	Load resistance voltage	≥ 10 kΩ
Output current	adjustable, 0...20 mA, 4...20 mA, -20...+20 mA	Output voltage	adjustable, 0...10 V, 2...10 V, 0...5 V, 1...5 V, -5...+5 V, -10...+10 V
Type (analogue output)	Voltage and current output (configurable)		

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Output (digital)

Alarm function	Surge current, Under-current, Alarm delay: 0...10 s, Hysteresis 5% / 10%	Number of digital outputs	1
Type	Relay, 1 CO contact, normal / inverse adjustment	Max. switching voltage, DC	24 V
Max. switching voltage, AC	250 V	Rated switching current	6 A

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 30	Wire connection cross section AWG, max.	AWG 14

Classifications

ETIM 5.0	EC002048	ETIM 6.0	EC002475
eClass 6.2	27-21-09-02	eClass 7.1	27-21-09-02
eClass 8.1	27-21-09-02	eClass 9.0	27-21-09-02
eClass 9.1	27-21-01-23		

Approvals

Approvals



ROHS Conform

Downloads

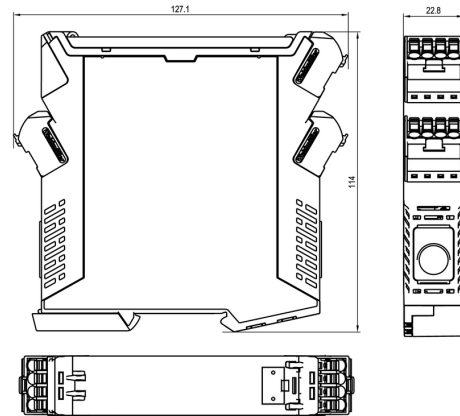
Approval/Certificate/Document of Conformity	DNV GL certification Declaration of Conformity
Brochure/Catalogue	CAT 4.1 ELECTR 16/17 EN
Engineering Data	EPLAN, WSCAD
Engineering Data	STEP
Software	DIP switch configuration tool
User Documentation	Instruction sheet

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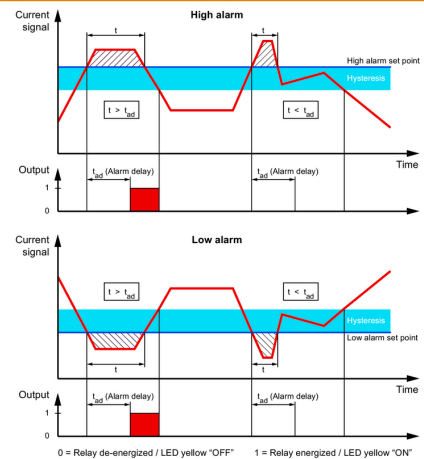
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Drawings

Dimensioned drawing



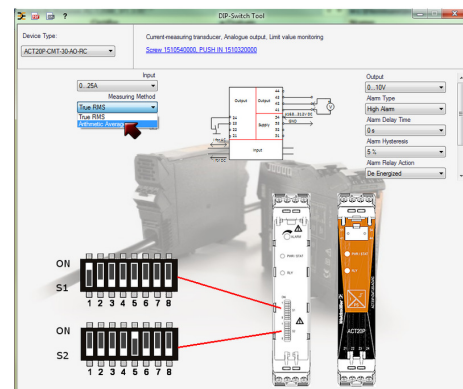
dimensions



Configuration

DIP switch S1	
Current input range	1 2 3 4 5 6 7 8
0...20 A	☐
0...25 A	☐
0...30 A	☒
Measuring method	1 2 3 4 5 6 7 8
True RMS	☐
Arithmetic average	☒
Alarm delay time	1 2 3 4 5 6 7 8
0 s	☐
2 s	☐
5 s	☐
10 s	☒
Measuring range monitoring	1 2 3 4 5 6 7 8
Yes	☐
No	☒
Output error action	1 2 3 4 5 6 7 8
Upscale	☐
Downscale	☒
Transfer function	1 2 3 4 5 6 7 8
Normal	☐
Inverse	☒

DIP switch S2	
Output range	1 2 3 4 5 6 7 8
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	1 2 3 4 5 6 7 8
Energized	☐
De-energized	☒
Alarm hysteresis	1 2 3 4 5 6 7 8
5 %	☐
10 %	☒
Alarm type	1 2 3 4 5 6 7 8
High alarm	☐
Low alarm	☒



example for DIP switch setting (with ACT20 tool)

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