

**ACT20P**  
**ACT20P-CMT-60-AO-RC-S****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 1429-0

Fax: +49 5231 14292083

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-60-AO-RC-S
Order No.	<a href="#">1510440000</a>
Version	Current-measuring transducer, Limit value monitoring, Signal converter/isolator, Current monitoring, Analogue output, Screw connection, Input measurement range: configurable, 0... 40/50/60 A AC or DC
GTIN (EAN)	4050118319620
Qty.	1 pc(s).

# ACT20P

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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
Weight	180 g	Net weight	158 g

### Temperatures

Humidity	5...95 %, no condensation	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...40/50/60 A AC or DC	Input frequency	AC: 15...700 Hz (true root mean square), AC: 50 Hz (arithmetic average)

### General data

Accuracy	< 0.75 % FSR, < 1.5 % FSR with measurement range 50/60 A AC	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	< 220 ms (10...90 %)
Supply voltage	16,8 V...31,2 V	Temperature coefficient	typ. 0.04 % / K, max. 0.09 % / K

### Insulation coordination

EMC standards	IEC 61326-1:2012	Galvanic isolation	4-way isolator, between input/output/supply/relay
Impulse withstand voltage	6.4 kV (1.2/50 µs)	Pollution severity	2
Rated voltage	300 V AC <sub>rms</sub>	Standards	IEC 61010-1:2010, 3rd Edition, IEC 61010-2-201:2013, 1st Edition, EN 61326-1
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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**Technical data**
**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 <sup>2</sup>
Clamping range, rated connection, min.	0.5 mm <sup>2</sup>	Clamping range, rated connection, max.	2.5 mm <sup>2</sup>
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

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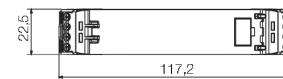
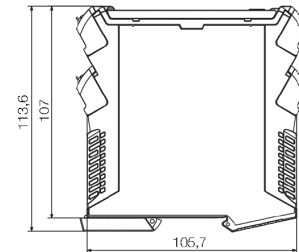
Approval/Certificate/Document of Conformity	<a href="#">Declaration of Conformity</a>
Brochure/Catalogue	<a href="#">CAT 4.1 ELECTR 16/17 EN</a>
Engineering Data	<a href="#">EPLAN, WSCAD</a>
Software	<a href="#">DIP switch configuration tool</a>
User Documentation	<a href="#">Instruction sheet</a>

## ACT20P ACT20P-CMT-60-AO-RC-S

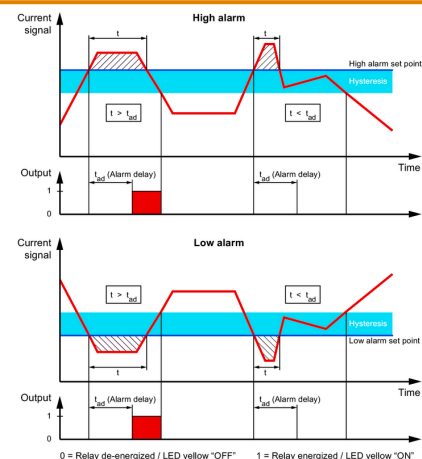
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# Drawings

## Dimensioned drawing



dimensions



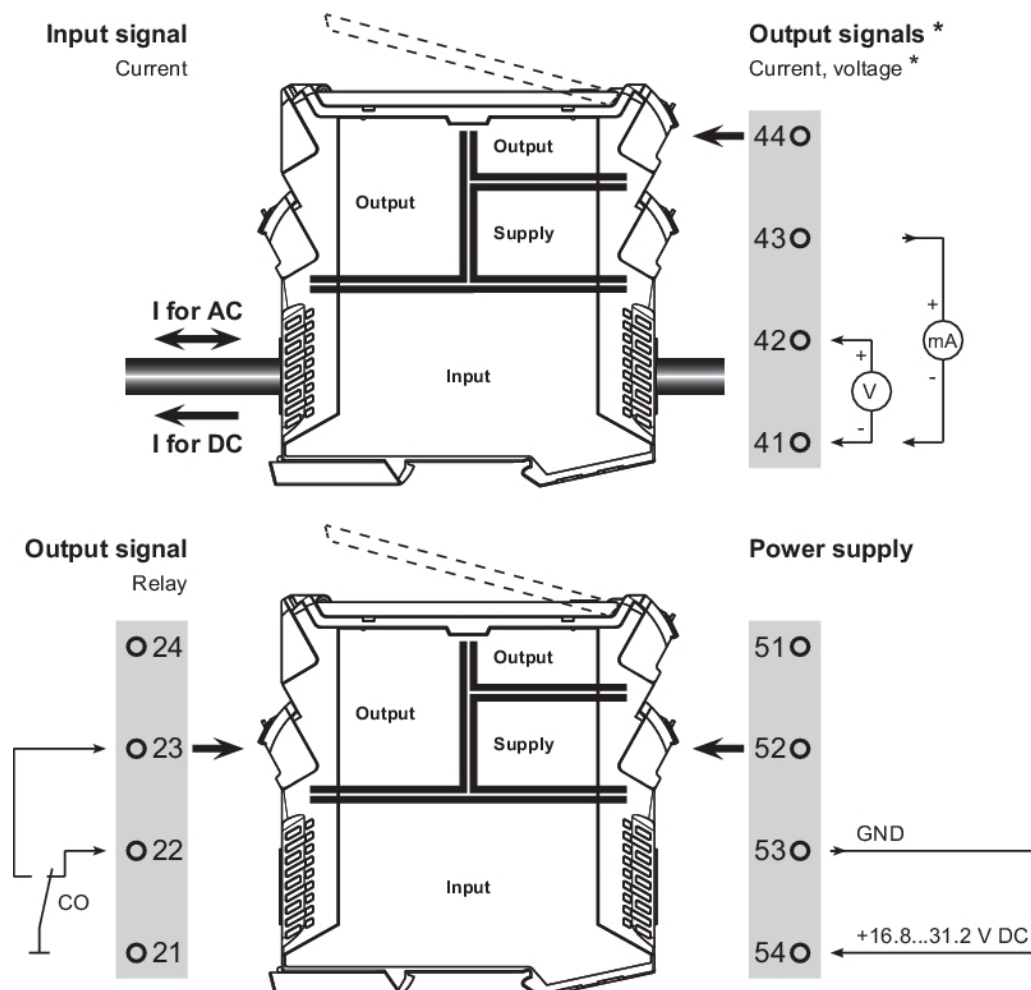
DIP switch S1							
Current input range	1	2	3	4	5	6	7 8
0...5 A							
0...10 A							
0...20 A							
0...25 A							
0...30 A							
0...40 A							
0...50 A							
0...60 A							
Measuring method	1	2	3	4	5	6	7 8
True RMS							
Arithmetic average							
Alarm delay time	1	2	3	4	5	6	7 8
0 s							
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							

■ = ON  
1) ACT20P-CMT-10-AO-RC-S  
2) ACT20P-CMT-30-AO-RC-S  
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## Drawings



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