

ACT20C-CMT-60-AO-RC-S

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

Product image



The ACT20C series was especially developed for applications with continuous processes. It enables the continuous monitoring of diagnostic, device and process information ("condition monitoring").

Several ACT20C components form a station which consists of an ACT20C Ethernet gateway, communicative ACT20C signal converters and an ACT20C bus termination terminal.

General ordering data

Version	Current-measuring transducer, Input : 0... 40/50/60 A, Output : 0(4)-20 mA, 0-10 V, Relay
Order No.	1510420000
Type	ACT20C-CMT-60-AO-RC-S
GTIN (EAN)	4050118319613
Qty.	1 items

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Technical data

Approvals

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ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULus) E141197

Dimensions and weights

Depth	113.6 mm	Depth (inches)	4.4724 inch
Height	117.2 mm	Height (inches)	4.6142 inch
Width	22.5 mm	Width (inches)	0.8858 inch
Net weight	154 g		

Temperatures

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

Probability of failure

SIL in compliance with IEC 61508	None	MTTF	130 a
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Environmental Product Compliance

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

Input

Input frequency	AC: 15...700 Hz	Input measurement range	configurable, 0...40/50/60 A AC (RMS) or DC
Input signal	Current-carrying cable in feed-through hole, Diameter 10.5 mm		

Interface 1

Interface	Communication via CH20M rail bus with gateway (ACT20C-GTW-100-MTCP-S)
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Output

Load impedance current	≤ 600 Ω
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Output (digital)

Rated switching current	6 A	Max. switching voltage, AC	250 V
Type	Relay, 1 CO contact, Process alarms (4x) with		

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hysteresis, with alarm
delay (configurable) 0...
180 s

Output (analogue)

Type (analogue output)	Voltage and current output (configurable)	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	Load resistance current	≤ 600 Ω
Output current	Adjustable, 0...20 mA, 4...20 mA, -20...+20 mA		

alarm output

Switching current	5 A		
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General data

Accuracy	<0.75 % FSR, <1.5 % FSR with measurement range 50/60 A AC	Supply voltage	via the system bus
Step response time	<300 ms	Mounting rail	TS 35
Temperature coefficient	typ. 0.04 % / K, max. 0.09 % / K	Nominal power consumption	3 VA
Configuration	With FDT/DTM software, via gateway (ACT20C-GTW-100-MTCP-S), Addressing via DIP switches	Power consumption, max.	2.2 W

Insulation coordination

Impulse withstand voltage	6.4 kV (1.2/50 μs)	EMC standards	IEC 61326-1
Test voltage	4 kV	Surge voltage category	III
Pollution severity	2	Galvanic isolation	4-way isolator, between input / output / supply / relay
Rated voltage	300 V ACrms		

Connection data

Type of connection	Screw connection	Tightening torque, min.	0.5 Nm
Tightening torque, max.	3.5 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
Wire cross-section, solid, min.	0.5 mm ²	Wire cross-section, solid, max.	2.5 mm ²

Part description

Product description	<p>The ACT20C-CMT-XX-AO-RC-S current measuring transducers from the ACT20C series measure and monitor DC and AC currents of up to 60 A. The True RMS method used allows for precise measurement, even in case of distorted current waveforms. The devices feature integrated limit value monitoring with an adjustable switching threshold, delay and hysteresis, as well as a relay output.</p> <p>Properties</p> <ul style="list-style-type: none"> • True RMS value measurement or arithmetic averaging (AA) measurement and contactless through-hole technology • Limit value monitoring for overcurrent or undercurrent • Relay output by means of the open-circuit / closed-circuit principle • Infinitely variable trigger delay 		
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Technical data

- 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 61010-2-201:2013

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		

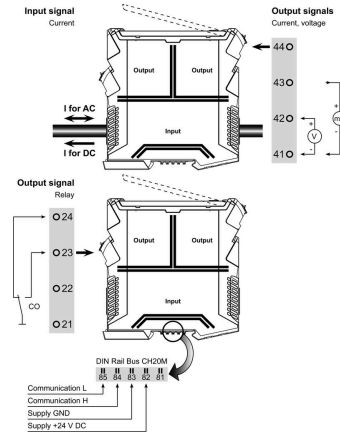
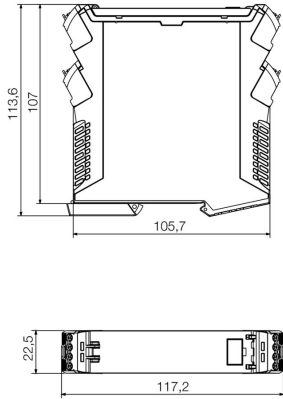
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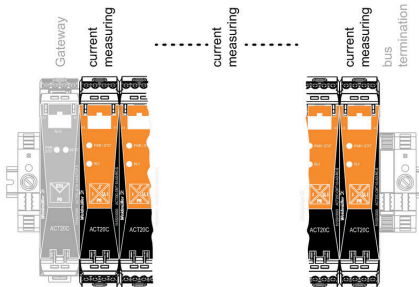
Drawings

www.weidmueller.com

Dimensioned drawing



ACT20C-CMT-60-AO-RC-S is part of the ACT20C- Station



Configuration

User address	DIP switch S1					
	1	2	3	4	5	6
2		■				
3	■					
4			■			
5		■	■			
6				■		
7	■	■	■			
8					■	
...						
16						■
...						
32						■
33	■					

■ = ON

