

ACT20C-AI-AO-MTCP**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image****Only remaining stock
available****FDT** 

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

Order No.	1334490000
Type	ACT20C-AI-AO-MTCP
GTIN (EAN)	4050118137675
Qty.	1 pc(s).
Delivery status	This article will no longer be available in the future.
Available until	2021-12-31

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Technical data

Dimensions and weights

Depth	113.6 mm	Depth (inches)	4.472 inch
Length	119.2 mm	Length (inches)	4.693 inch
Net weight	169 g	Weight	180 g
Width	22.5 mm	Width (inches)	0.886 inch

Temperatures

Storage temperature	-20 °C...85 °C	Operating temperature	-20 °C...70 °C
Humidity	0...95 % (no condensation)		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Input

Input current	0...20 mA, 4...20 mA	Input voltage	0(2)...10 V
Number of inputs	1	Sensor supply	> 17 V DC at 20 mA

Output

Load impedance current	≤ 500 Ω	Number of outputs	1
Output current	0...20 mA, 4...20 mA	Output voltage, note	0...10 V
load impedance voltage	≥ 10 kΩ		

Output (analogue)

Load resistance current	≤ 500 Ω	Load resistance voltage	≥ 10 kΩ
Output current	0(4)...20 mA	Output voltage	0...10 V
Transmit function	direct or inverted	Type (analogue output)	Voltage and current output (configurable)

General data

Accuracy	< 0.15% end value (+ 0.05% > 55 °C), Current: 1 µA / 30 µA (+ 10 µA > 55°C), Voltage: 1 mV / 15 mV (+ 5 mV > 55°C)	Configuration	FDT/DTM (Ethernet or service interface)
Galvanic isolation	4-way isolator, between input / output / power supply / Ethernet	Power consumption	≤ 3.5 W
Rail	TS 35	Temperature coefficient	≤ 0.01 % / °C
Type of connection	Screw connection/ RJ45 plug-in connector	Voltage supply	24 V DC ± 25 %

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Insulation coordination

EMC standards	EN 61326-1:2006	Galvanic isolation	4-way isolator, between input / output / power supply / Ethernet
Pollution severity	2	Rated voltage / test voltage: Ethernet interface to supply / functional earth to supply / Ethernet interface	31.2 V DC / 0.9 kV _{rms} in secondary electrical circuits, basic insulation
Rated voltage / test voltage: functional earth to input / output	300 V _{rms} / 1.1 kV _{rms} in secondary electrical circuits, basic insulation	Rated voltage / test voltage: input / output to output / input / supply / Ethernet interface	300 V _{rms} / 1.7 kV _{rms} in secondary electrical circuits, reinforced insulation
Recommendations	Namur NE43, Namur NE44, Namur NE107		

Connection data

Type of connection	Screw connection / RJ45 plug-in connector	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
Wire cross-section, solid, min.	0.5 mm ²	Wire cross-section, solid, max.	2.5 mm ²

Classifications

ETIM 6.0	EC002653	ETIM 7.0	EC002653
ECLASS 9.0	27-21-01-20	ECLASS 9.1	27-21-01-90
ECLASS 10.0	27-21-01-20	ECLASS 11.0	27-21-01-20

Important note

Product information

With the ACT20C, Weidmüller is presenting a completely new type of signal converter. The compact module is equipped with an Ethernet connection and provides, in addition to signals, precise information on the status of sensors, signal processing and cabling.

ACT20C, as a signal converter, isolates, scales and converts analogue current and voltage signals; it can be configured directly with the "WI-Manager" software or via an Ethernet network. The software is based on the supplier-independent FDT/DTM technology.

The ACT20C has been designed specifically for process automation in order to continuously forward measured values and status information to networked devices. During standard operation, malfunction, maintenance or configuration via the network, this allows a precise display of the current status. In case of error, the ACT20C supplies precise information for error analysis and can therefore contribute to higher system availability.

Approvals

Approvals



Approvals	DNVGL;
ROHS	Conform

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Technical data

Downloads

Approval/Certificate/Document of
Conformity

[Declaration of Conformity](#)

Engineering Data

[STEP](#)

Engineering Data

[EPLAN, WSCAD](#)

Software

[WI-Manager, DTM-Library for online installation V.1.2.2](#)

User Documentation

[Manual](#)
[Instruction sheet](#)

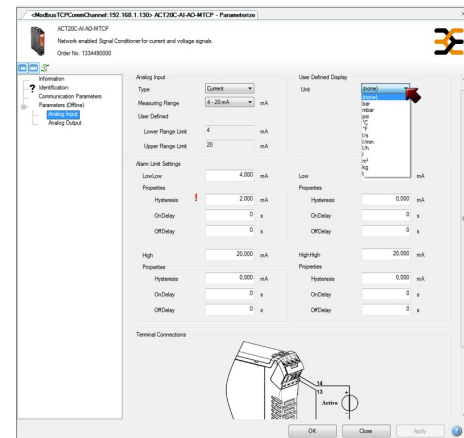
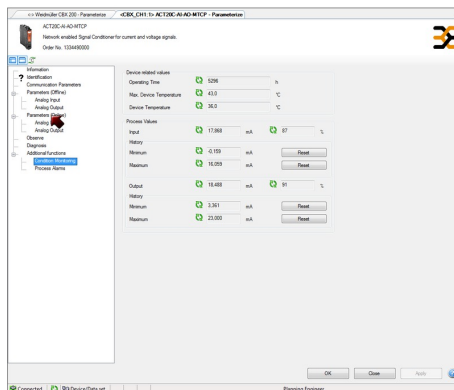
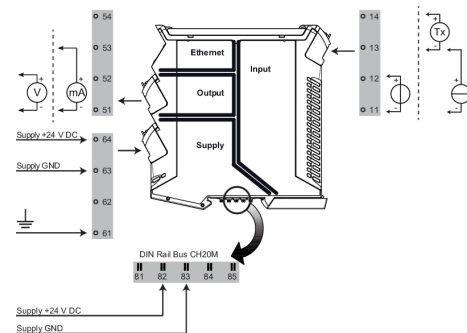
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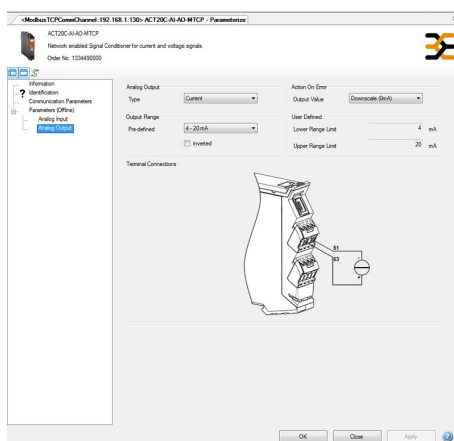
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Drawings

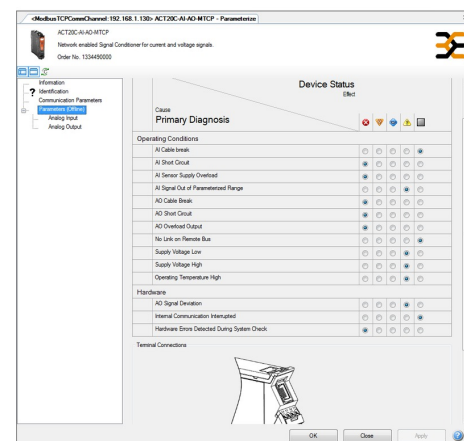
Connection diagram



Screenshot configuration with FDT/DTM example for input



Screenshot configuration with FDT/DTM example for output



Screenshot configuration with FDT/DTM example for diagnosis

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Drawings

