

## ACT20X ACT20X-HUI-SAO-S

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The ACT 20X HUI-SAO-S/ SAO-LP universal measurement and signal isolating converters can be configured individually.

Temperature signals from PT100 sensors and thermocouples as well as analogue DC current and voltage signals can be recorded from Ex zone 0.

On the output side, optional current/voltage (SAO-S) or 4...20 mA current loop signals (SAO-LP / SAO-S) are provided for the safe zone.

The ACT20X-HUI-SAO-S also has a relay output for configuring its switching threshold.

An integrated alarm contact is available on this device for issuing an alert in the event of a malfunction. This makes troubleshooting easier and also increases system availability.

The power supply of the signal isolating converter is either done using the integrated power supply (SAO-S) or alternatively over the output-side current loop (SAO-LP).

The rail mountable devices are designed with one channel, and are optionally available in widths of 12.5 mm (SAO-LP) or 22.5 mm (SAO-S).

### General ordering data

Type	ACT20X-HUI-SAO-S
Order No.	<a href="#">8965490000</a>
Version	ACT20X, EX signal isolating converter, 1-channel version
GTIN (EAN)	4032248785100
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	202 g		

**Temperatures**

Humidity	0...95 % (no condensation)	Operating temperature	-20 °C...60 °C
Storage temperature	-20 °C...85 °C		

**Probability of failure**

MTBF	74 Years
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**Input EX**

Input current	0...20 mA, 4...20 mA	Input resistance	configurable, 0...10 kΩ
Input resistance, current	20 Ω + PTC 50 Ω	Input resistance, voltage	> 10 MΩ @ 600 mV, 2 MΩ @ 28 V
Input voltage	configurable, 0...1 V DC, 0,2...1 V DC, 1...5 V DC, 0...(5)10 V, 2...10 V DC	Line resistance in measuring circuit	≤ 50 Ω
Potentiometer		Sensor	2-/3-/4-wire, RTD: PT10, PT20, PT50, PT100, PT250, PT300, PT400, PT500, PT1000, Ni50, Ni100, Ni120, Ni1000, Thermocouples: B, E, J, K, N, R, S, T ; in compliance with IEC 60584-1 and L, U in compliance with DIN43710, Potentiometer, Resistance: 0 - 12 kΩ
Temperature input range	10 Ω...10 kΩ Adjustable from -200...+800°C	Type	intrinsically safe circuit, active (as current source) or passive (as current sink)

**Output**

Type	active (as current source) or passive (as current sink)	Output signal limit	3.8...20.5 mA / 0...20.5 mA (dependent on range)
Output current	0...23 mA, configurable: 0...20 / 4...20 / 20...0 / 20...4 mA, configurable downscale (3.5 mA) / upscale (23 mA) @ error	load impedance current	≤ 600 Ω

**Alarm output**

Alarm function	No supply voltage, Device error	Type	Relay, 1 NC (voltage-free)
Nominal switching voltage	≤ 125 V AC / 110 V DC (safe area) ≤ 32 V AC / 32 V DC (Zone 2)	Continuous current	≤ 0.5 A AC / 0.3 A DC (safe zone), ≤ 0.5 A AC / 1 A DC (Zone 2)
Power rating	≤ 62.5 VA / 32 W (safe area) ≤ 16 VA / 32 W (Zone 2)		

Creation date November 21, 2016 11:19:05 AM CET

Catalogue status 04.11.2016 / We reserve the right to make technical changes.

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**Technical data**
**General specifications**

Configuration	With FDT/DTM software	Supply voltage	19.2 – 31.2 V DC
Type of connection	Screw connection, Removable terminal block	Power consumption	≤ 2.1 W
Protection degree	IP20	Humidity	0...95 % (no condensation)

**Insulation coordination**

EMC standards	DIN EN 61326, NE 21	Pollution severity	2
Insulation voltage	2.6 kV (input / output)	Rated voltage	300 V

**Digital output**

Type	Relay, 1 NO / NC contact	Nominal switching voltage	≤ 250 V AC / 30 V DC (safe area) ≤ 32 V AC / 32 V DC (Zone 2)
Power rating	≤ 500 VA / 60 W (safe area) ≤ 16 VA / 32 W (Zone 2)	Continuous current	≤ 2 A AC/DC (safe area, Zone 2 area)
Function	Configurable switching thresholds, Sensor error, Window function		

**Output current loop**

2-wire supply	≤ 26 V DC	Output current (current loop)	4...20 mA
Load resistance	≤ (Vs - 10) / 20 mA (current loop)	Influence of load resistance	≤ 0.01% of span / 100 Ω

**Data for Ex applications (ATEX)**

Voltage U <sub>0</sub>	8.7 V DC	Current I <sub>0</sub>	18.4 mA
Power P <sub>0</sub>	40 mW	Marking	II (1) G [Ex ia Ga] IIC/IIB/ IIA, I (M1) [Ex ia Ma] I, II (1) G [Ex ia Ga] IIC, II (1) D [Ex ia Da] IIIC

**Safety-related basic specifications**

Device type	B	Hardware fault tolerance (HFT)	0
T <sub>proof</sub>	4 Years	Safety category	SIL 2
Probability of outage PFH	4.33 x 10 <sup>-8</sup> h <sup>-1</sup>		

**Safety-related specifications Low demand mode**

Average Probability of Failure on Demand (PFD <sub>avg</sub> )	2.82 x 10 <sup>-4</sup> (T <sub>proof</sub> = 1 year), 4.63 x 10 <sup>-4</sup> (T <sub>proof</sub> = 2 years), 1.00 x 10 <sup>-4</sup> (T <sub>proof</sub> = 5 years), additional data in the safety manual
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**Data sheet**

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**Technical data**

**Connection data**

Type of connection	Screw connection, Removable terminal block	Tightening torque, min.	0.4 Nm
Tightening torque, max.	0.6 Nm	Clamping range, rated connection	2.5 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>

**Rated data UL**

UL certificate	E337701.pdf
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**Ratings IECEx/ATEX/cUL**

ATEX certificate	10ATEX0071X.pdf	IEC Ex certificate	IECEX certification
Certificate No. (ATEX)	KEMA10ATEX0071X	Certificate No. (IECEX)	IECEXKEM10.0034X

**Classifications**

ETIM 3.0	EC002479	ETIM 4.0	EC002479
ETIM 5.0	EC002479	ETIM 6.0	EC002653
UNSPSC	30-21-18-01	eClass 5.1	27-21-01-07
eClass 6.2	27-21-01-07	eClass 7.1	27-21-01-07
eClass 8.1	27-21-01-07	eClass 9.0	27-21-01-07
eClass 9.1	27-21-01-20		

**Product information**

Descriptive text ordering data	CBX200 USB configuration adapter - 8978580000
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**Approvals**

Approvals



ROHS	Conform
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**Probability of failure**

SIL PAPER	<a href="#">SIL certificate</a>
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**Technical data****Downloads**

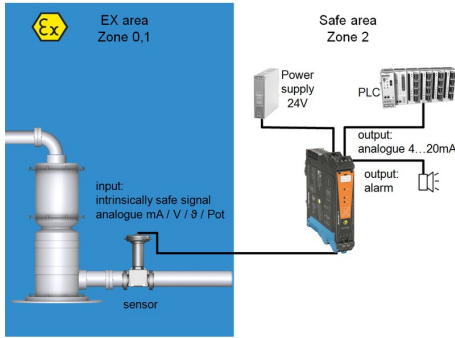
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Engineering data	<a href="#">EPLAN</a>
FDT/DTM Software	<a href="#">WI-Manager + DTM-Library for online installation</a>
Manual	<a href="#">Manual ACT20X- Hardware german / english</a>
Package insert	<a href="#">instruction sheet.pdf</a>
SIL PAPER	<a href="#">SIL certificate</a>
Safety manual	<a href="#">Manual "functional safety"</a>
WI Manager manual	<a href="#">Manual WI-Manager german/english</a>
Declaration of Conformity	<a href="#">Declaration of Conformity</a>

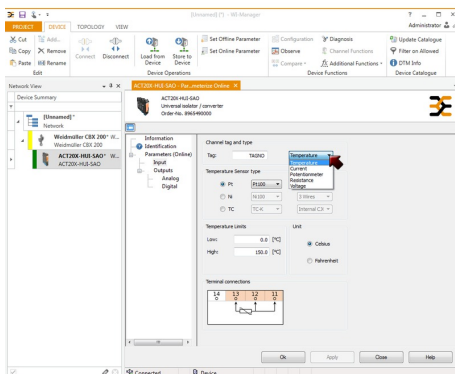
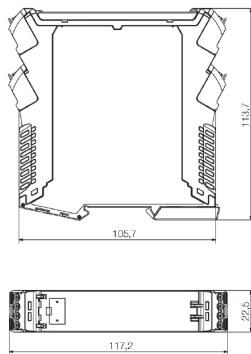
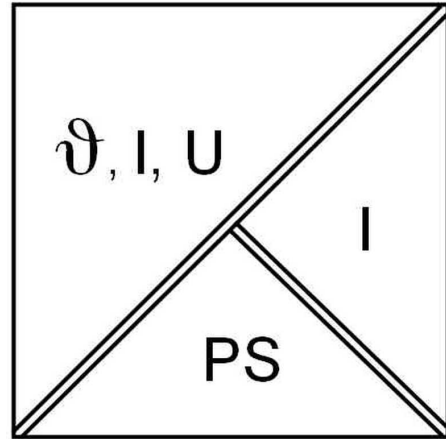
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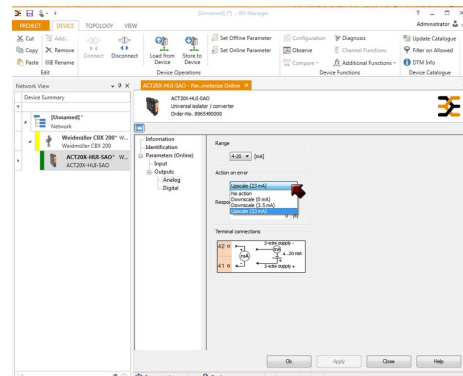
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application schematic



screenshot of temperature input configuration with FDT2 / DTM software

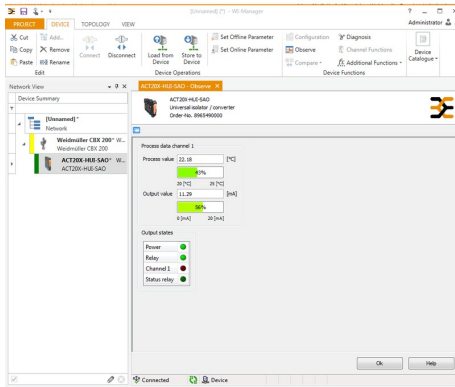


screenshot of output configuration with FDT2 / DTM software

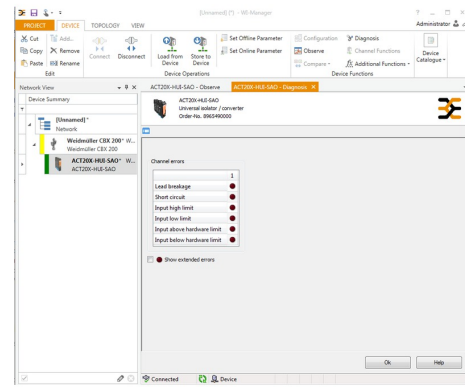
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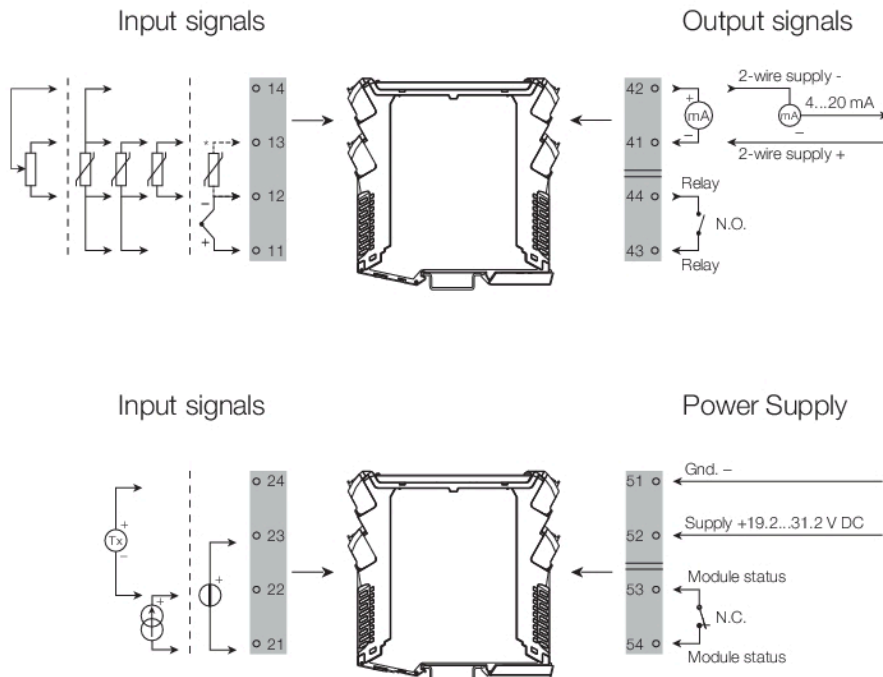
**Drawings**




screenshot of "observe" with FDT2 / DTM software



screenshot of "diagnosis" with FDT2 / DTM software



 Zone 0, 1, 2, 20, 21, 22 /  
 Cl. I/II/III, div. 1 gr. A-G

 Zone 2 / FM Cl. 1,  
 div. 2, gr. A-D o safe area



# Addresses worldwide

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