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WAS/WAZ6 TTA is a universal signal converter and trip amplifier that can be configured on the PC. Combines the functions of isolation, transmission, linearisation and trip amplification in a single module.

These exceptional characteristics and outstanding configurability combine to make the TTA truly unique.

The TTA functions with stability and precision under a wide range of voltages and ambient temperatures. It is compatible with all standard sensor types.

- Universal input signals: temperature signals such as resistance thermometer, thermocouple, potentiometer, frequency transmitter, DC voltage signals and current signals
- Loop-powered or passive input
- Wide-range power supply: 18 – 264 V AC/DC
- User-defined linearization
- Inputs and outputs can be configured on PC
- Combined analogue and relay output
- Ambient temperature range: -40 °C ...70 °C

The CBX200 USB interface is used to connect to the PC.

The WAS/WAZ6 TTA is also offered as an option with ATEX Zone 2 and UL C1D2 approvals.

General ordering data

Version	Input : EX, universal U, I, R,9, Output : I/U universal, 2 x relays
Order No.	8964310000
Type	WAS6 TTA EX
GTIN (EAN)	4032248782277
Qty.	1 items
Delivery status	Discontinued
Last order date	2023-12-30T00:00:00+01:00
Alternative product	ACT20P-PRO DCDC II-S

Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E141197
Certificate no. (cULusEX)	E223527

Dimensions and weights

Depth	112.4 mm	Depth (inches)	4.4252 inch
Width	45 mm	Width (inches)	1.7716 inch
Length	100 mm	Length (inches)	3.937 inch
Net weight	265 g		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	0 °C...70 °C
Humidity at operating temperature	0...95 % (no condensation)	Humidity	5...95 %, no condensation

Probability of failure

SIL in compliance with IEC 61508	None	MTTF	138 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, 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol 119-47-1
SCIP	c2a21576-d875-4548-ae68-5e7f85ddf0c7

Input

Sensor	Thermocouples: B, E, J, K, L, N, R, S, T (IEC 60584), PT100, PT1000, (EN 60571) Ni100, Ni1000, (JIS1604), Cu10, Cu25, Cu50, Cu100 (DIN 43760) 2-/3-/4-wire	Number inputs	1
Input frequency	adjustable, 2 Hz...100 kHz	Potentiometer	10...50 Ω, 50...100 Ω, 100...200 Ω, 200...400 Ω, 400...800 Ω, 800 Ω...2 kΩ, 2...6.5 kΩ, 6.5...100 Ω
Sensor supply	24 V DC / 22 mA	Input voltage	-200...500 mV (min. 4 mV span), -20...50 V DC (min. 0.5 V span)
Temperature input range	Configurable, B: +100...+1820 °C, E: -270...+1000 °C, J: -270...+1200 °C, K: -150...+1372 °C, L: +100...+900 °C, N: -180...+1300 °C, R: -50...+1768 °C, S: -50...+1768 °C, T: -270...+400 °C, U: -200...+600 °C, User defined	Resistance	10 Ω...5 kΩ

WAS6 TTA EX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Input current	-20...+50 mA (min. interval 0.4 mA)
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Output

Load impedance current	≤ 600 Ω, @ max 23mA	Transmit function	Linear, x1/2, x3/2, x5/2 or user-defined curve (101 points)
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Output (digital)

Rated switching current	0.1 A	Continuous current	2 A
Number of digital outputs	2	Max. switching voltage, AC	0 V
Type	2 x 1 CO contact (hard gold-plated), Process alarms (4x) with hysteresis, with alarm delay (configurable) 0...180 s	Alarm function	Top and bottom limit values, window range, Over-temperature, Alarm mode: delay, switch on or switch on/off, Holding function can be activated, Delayed 0...4200 s

Output (analogue)

Signal output	direct or inverted	Output voltage	adjustable between -10...+10 V (min. span 2.5 V)
Load resistance voltage	> 10 kΩ @ 0...10 V / > 20 kΩ @ -10...+10 V	Number analogue outputs	1
Load resistance current	<700 Ω	Output current	adjustable between 0 and 20 mA (min. span of 5 mA)

General data

Accuracy	<0.1 % span (DC, RTD); 0.2 % span (or 1 °C) + CJ failure	Protection degree	IP20
Supply voltage	24...240 V AC/DC; 24...36 V AC / 24...50 V DC (ATEX Zone 2)	Long-term drift	0
Step response time	50 ms...1 sec (RTD, mV inputs), 110 ms...1 sec (V, mA inputs)	Power consumption	<3.5 W
Temperature coefficient	<0.1 % / K (DC, RTD); <0.1 % FSR / K + CJ error 0.07 °C/K (thermocouples)	Nominal power consumption	1.5 VA
Configuration	Using free Windows software, TTA Set Software, Requires configuration adapter 8978580000 CBX200 USB		

Insulation coordination

Impulse withstand voltage	6 kV	EMC standards	EN 55011, EN 61000-6
Surge voltage category	III	Pollution severity	2
Insulation voltage	2.5 kV	Rated voltage	300 V

Data for Ex applications (ATEX)

Marking	II 3 G Ex nA nC IIC T4 Gc
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WAS6 TTA EX

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

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Technical data

Connection data

Type of connection	Screw connection	Stripping length, rated connection	7 mm
Tightening torque, min.	0.4 Nm	Tightening torque, max.	0.5 Nm
Clamping range, rated connection	2.5 mm ²	Clamping range, min.	0.5 mm ²
Clamping range, max.	2.5 mm ²		

Important note

Product information

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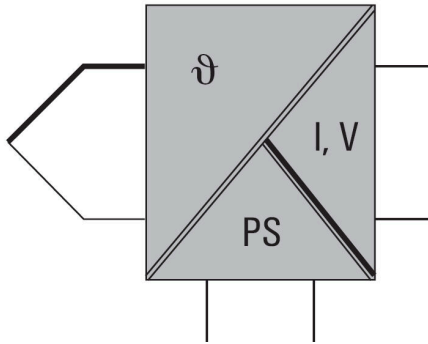
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Classifications

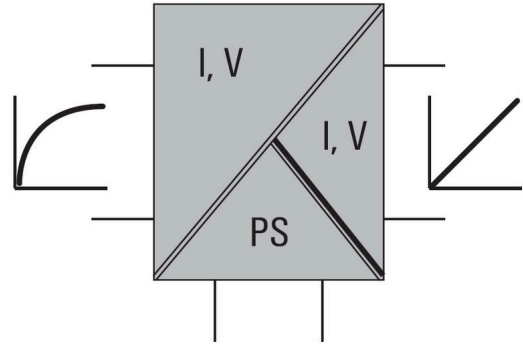
ETIM 8.0	EC002653	ETIM 9.0	EC002653
ETIM 10.0	EC002653	ECLASS 14.0	27-21-01-20
ECLASS 15.0	27-21-01-20		

Drawings

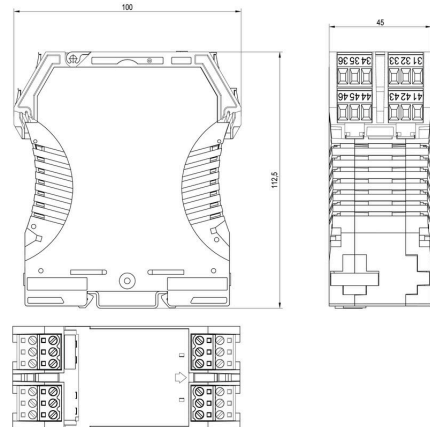
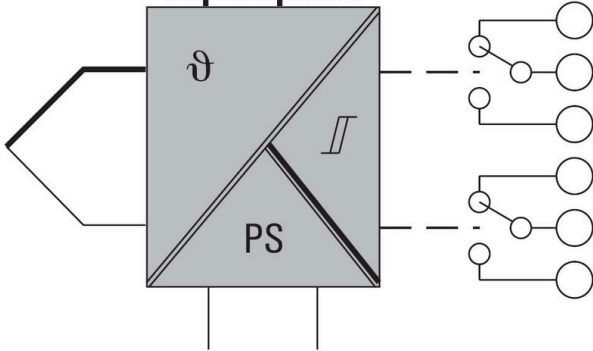
Transmitter



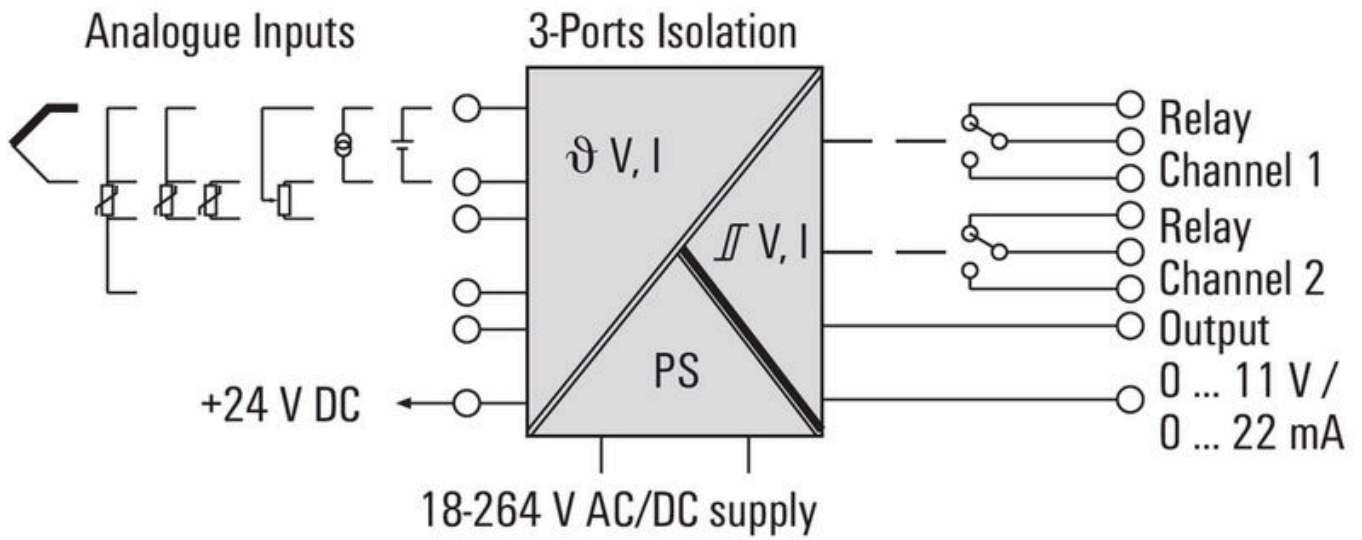
Lineariser



Trip amplifier



Drawings



Accessories

Configuration interfaces



General ordering data

Type	CBX200 USB	Version	
Order No.	8978580000		
GTIN (EAN)	4032248813759		
Qty.	1 ST		