

WAVESERIES WAVE TTA

NEW



The WAVE TTA is a “universal” transmitter trip amplifier. It is part of Weidmüller’s well-established WAVESERIES family of analog signal conditioners, which are widely used in process and factory automation applications.

The WAVE TTA is an intelligent signal

- isolator
- converter
- transmitter
- linearizer
- trip amplifier

The TTA will function accurately over a wide ambient temperature range, and over a wide supply voltage range, and with most types of sensor inputs. For two wire current transmitters, 24 V DC power is provided. Alternatively the TTA can be a passive input for the current source.

Most commonly used temperature sensors and DC inputs are accepted, and the TTA also allows the user to define specific characteristics, so special sensor types and linearization can easily be accommodated.

To help simplify installation and loop commissioning, test terminals are provided to permit input and output signal checks without removing cabling.

For linearized and/or isolated analog outputs, the user has a choice of standard or scalable DC current and voltage ranges. These can be set as either direct or reverse acting. The user can also select upscale or downscale output in the event of a sensor break or an open circuit in the input.

The TTA provides two independently settable changeover-relay outputs, for use as high and low level alarms or control points.

Configuring the versatile TTA to change input and output parameters is simple, and performed from a computer via an interface (CBX100 USB). The necessary TTA SET software comes free of charge with the WAVE TTA.

The WAVE TTA accepts voltage supply between 18 and 264 V AC or DC.

The TTA comes in a black WAVESERIES UL 94 V0 housing, for mounting on TS35 DIN rail. Pluggable connectors, allow screw or tension clamp wiring. A screwdriver-releasable front flap gives access to the configuration interface socket.

The WAVE TTA is CE and cULus approved.

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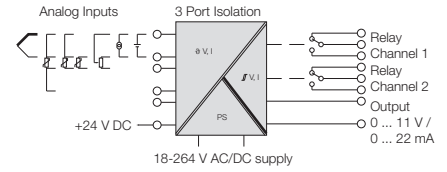
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WAVE TTA

Universal signal converter and trip amplifier

- Inputs and outputs configured via PC
- Universal inputs
- Loop-powered or passive mA input
- Powered from AC or DC supply

WAS6 TTA / WAZ6 TTA

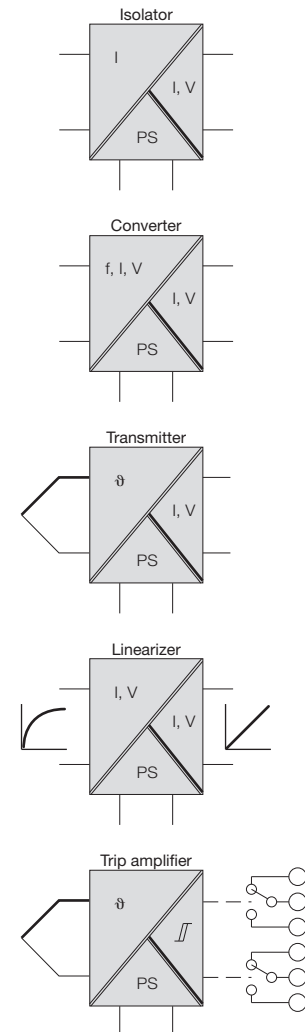


Technical data

Input	
Type, thermocouple	
Type, RTD	
Potentiometer / current	
Resistance	
Frequency	
Voltage	
Current	
Current Loop Supply	
Output signal during wire break / max.	
Accuracy	
Temperature coefficient	
Output (analog)	
Output voltage	
Output current	
Load resistance, voltage	
Current	
Signal output	
Transmit function	
Output (digital)	
Type	
Contact base material	
Max. switching voltage AC	
Continuous current	
General data	
Supply voltage	
Power consumption	
Operating temperature	
Storage temperature	
Step response time	
Approvals	
Humidity	
Insulation coordination	
Standards	
EMC standards	
Rated voltage	
Impulse withstand voltage	
Pollution severity	
Overvoltage category	
Clearance & creepage distance	
Clamping range (rated- / min. / max)	mm ²
Length x width x height	mm

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-conductor
100 Ω...100 kΩ
10 Ω...5 kΩ
2 Hz...100 kHz
-200...500 mV (min. span 4 mV), -20...50 V DC (min. span 0.5 V)
-20...50mA (min. span 1mA)
24 V DC / 22 mA
configurable /
< 0.1 % span (DC, RTD); 0.2 % span (or 1 °C) + CJ error
< 0.1 % / K (DC, RTD); < 0.1 % FSR / K + CJ error 0.07 °C/K (thermocouples)
Can be set from -10...+10 V (min. span 2.5 V)
Can be set from 0...20 mA (min. span 5 mA)
> 10 kΩ @ 0...10 V / > 20 kΩ @ -10...+10 V
< 700 Ω
Direct or inverted
Linear, x ^{1/2} , x ² , x ^{5/2} or user-defined curve (101 points)
2 x 1 CO contact (hard gold plated)
AgSnO 5µm Au
250 V
3 A
18...264 V AC/DC
< 3.5 W
-40 °C...+70 °C
-40 °C...+85 °C
50 ms...1 sec (RTD, mV inputs), 110 ms...1 sec (V, mA inputs)
CE; cULus
5...95 % non-condensing
EN 50178 (protective separation)
EN 55011, EN 61000-6
300 V
6 kV between supply & input/output, 4 kV between input & output
2
III
≥ 5.5 mm (1 mm input/output)
2.5 / 0.5 / 2.5
92.4 x 45 x 112.4

Typical functions



Ordering data

Screw connection
Tension clamp connection

Type	Part No.
WAS6 TTA	8939670000
WAZ6 TTA	8939680000

Accessories

Note

CBX100 USB Interface – 7940025031
Connects the WAVE TTA with a PC for calibration