



Signal converter



Type:
TVA-xx0

TVA – 080 / 100 / 120 / 180 / 200 / 220:

Isolation amplifier – active

for galvanic isolation, conversion and adjustment of electrical standard signals

Application

The active isolation amplifier of the series TVA is used, dependent on version, for galvanic isolation of electrical standard signals 0..10V / 0..1V / -5..+5V / -0,5..+0,5V / 0..20mA / 4..20mA / -10..+10mA or a pulse frequency modulated (PFM) current signal 90...520Hz or for convert it into another standard signal or to adjust the signals in the zero value and/or end value resp. amplification.

- Evaluable input signals
 - Direct voltage 0...10V / 0...1V / -5...+5V / -0,5...+0,5V
 - Direct current 0...20mA / 4...20mA / -10...+10mA
 - Pulse frequency modulated (PFM) current signal 90...520Hz

Output signals

- Direct voltage 0...10V / 2...10V – simultaneous outputs
- Direct current 0...20mA / 4...20mA - simultaneous outputs

Advantages

- Signal adjustment of zero value and amplification – optional
- Single or double channel version – optional
- Integrated measurand transducer supply – optional
- Space saving safe isolation with 4kV~
- Wide range power supply from 20 to 253V AC and DC

Technical data

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Housing:	Series installation housing, 22,5mm wide
Signal input (1x resp. 2x available, depends on version):	Direct voltage: 0...10 V / 0...1 V / -5...+5 V / -0,5...+0,5 V / max. 50V / input resistance 1,1MOhm Direct current: 0...20mA / 4...20mA / -10...+10mA / max. 400mA at 30V self-resetting fuse / input resistance 250Ohm + 0,2V
Permitted supply voltage:	20 V to 253 V AC / DC 48...62 Hz, reverse polarity protected
Signal output (1x resp. 2x available, depends on version)	Direct voltage: 0...10 V / 2...10 V, max. 17V, overload and short circuit protected



TVA-100 TVA-101 TVA-120



TVA-200 TVA-220

Device characteristics

	TVA-080-U0	TVA-180-U0	TVA-100-U0	TVA-120-U0	TVA-200-U0	TVA-220-U0
Fix adjusted version		x		x		x
Adjustable version	x		x		x	
Measurand transducer supply			x	x	x	x
Single channel version	x	x	x	x		
Double channel version					x	x