

# AC-Separation Converter

AD-TW 21 ST  
AD-TW 25 ST

## Description

The passive alternating current separation converter serves the conversion of alternating currents of dimensions 0...1 A AC or 0...5 A AC, in an impressed direct current of 0...20 mA. The galvanically separated output signal is independent from the connected load up to a maximum value. The separation converter requires no auxiliary energy, the necessary energy is gained from the measuring signal. With construction type GB, 2 independent channels are realisable in one housing. The user friendly plug-in module technology (construction type ST) enables quick and problem free assembly with little space requirement.

## Application

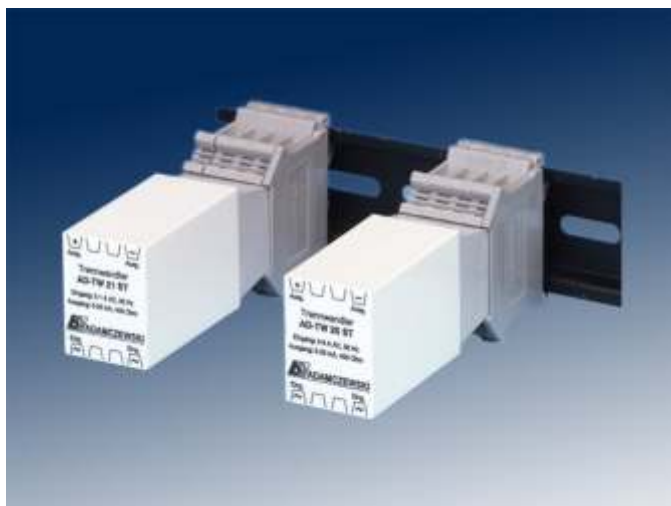
Trunk transmission of current converter signals, galvanic separation and coupling to systems with 0...20 mA inputs.

## Special characteristics

- for 1A AC or 5A AC - current transformer signals
- galvanically isolated output 0...20mA
- no auxiliary energy required, therefore less wiring, no warming up

## Specification

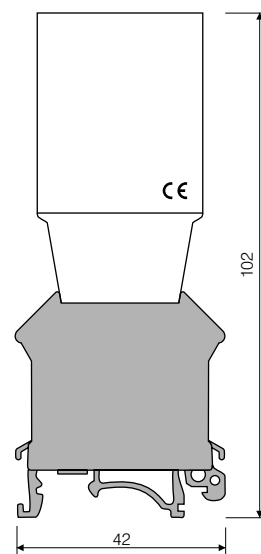
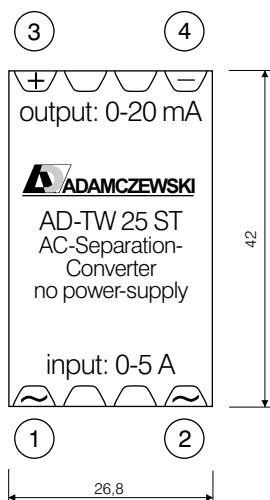
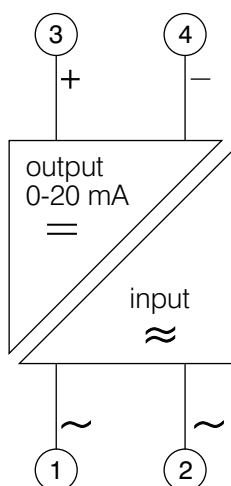
Construction type:	1-ch. plug-in module "ST" incl. terminal
Power supply:	passive, no power-supply necessary
Input:	0-1 A 50 Hz sinus= AD-TW 21 ST 0-5 A 50 Hz sinus= AD-TW 25 ST
Selfconsumption:	approx. 1,6 VA
Output:	0-20mA DC, impressed
Output-load:	max. 400 Ohm
Linearity:	+/- 0,3%
Effect of load:	-0,12% / 100 Ohm
Effect of temperature:	-0,03% / 10 K
Settling time:	< 0,5s (0-90%)
Ripple frequency:	< 0,4% (with load 10 Ohm)
Insulation voltage:	input/output: 2 kV RMS
EMC	
Product family standard	EN 61326
Emitted interference	EN 55011, CISPR11 Cl. B
Electrical safety requirements	
Product family standard	EN 61010-1
Ambient temperature:	0-50°C



Connections and dimensions:  
AD-TW 21 ST (1-channel)  
AD-TW 25 ST (1-channel)

weight: ca. 200 g  
protection: IP 20  
manner of fastening:  
DIN rail 35mm (EN50022)

connection data:  
fine-wire: 2,5 mm<sup>2</sup>  
single-wire: 4,0 mm<sup>2</sup>



Printed 27.09.2016. We reserve the right for technical changes



**ADAMCZEWSKI**  
Elektronische Messtechnik GmbH

Felix-Wankel-Str. 13  
Tel. +49 (0)7046-875  
vertrieb@ad-messtechnik.de

74374 Zaberfeld  
Fax +49 (0)7046-7678  
www.adamczewski.com