AC Isolation Converter

Current-transformer-transmitter

AD-SWT 50 SO
AD-SWT 100 SO
AD-SWT 200 SO

Description

The SWT series of devices (AD-SWT 50 SO, AD-SWT 100 SO and AD-SWT 200 SO) serves the measuring of large sinusoidal currents and simultaneous conversion to 4...20 mA transmitter signal. The devices are designed in two-wire technology and can be operated in a wide range of voltages. Dependent on the amount of the primary current, the devices sink a proportional 4...20 mA signal from the connected supply voltage. Due to the integral protection against polarization error and over-voltage, the transmitter are also protected against erroneous applications or transient over-voltages. The housing is designed in external clamp-on transformer format and therefore can be easily integrated into existing units.

Application

Measurings of large sinusoidal alternating currents, which, for instance, correspond to motor currents, pump currents or generator currents.

Attention: when fitting, it must be ensured that the ferrite surfaces of the SWT are free from dirt or fat residues through contact. Otherwise measuring value deviations or even error measurings are possible.

Specific characteristics

- Clamp-on transformer technology
- Extended supply voltage range
- 4 ... 20 mA transmitter signal
- Easy installation

Business data

Order number	
AD-SWT 50 SO	50 A AC Primärstrom
AD-SWT 100 SO	100 A AC Primärstrom
AD-SWT 200 SO	200 A AC Primärstrom
Accessory	
DIN rail holder	35 mm Normschiene

Information

Downloads

Technical specifications

Primary current	
Measurement method	inductive
Measuring range	0 ... 50/100/200 A AC
Max. conductor diameter	23 mm
Transmitter output	
Output range	4 ... 20 mA
Residual ripple	50 µAss
Transmitter-supply	
Voltage range DC	10 ... 30 V DC
Nominal voltage DC	24 V DC
Transmission behaviour	
Basic accuracy	< 1 %
Temperature influence	100 ppm/K
Response time	< 2 s (10...90 %)
Housing	
Dimensions (WxHxD)	50x42x82 mm
Type of protection	IP 20
Connection method	screw clamp
Terminals, wire cross section	1,5 mm² flex wire / 2,5 mm² one wire
Bolting torque terminals	0,5 Nm
Weight	~ 200 g
Manner of fastening	Folding transducer housing
Environmental conditions	
Ambient temperature	-10 ... 50 °C
Storage and transport	-10 ... 70 °C (no condensation)
EMC	
Product family standard	EN 61326-1 [1]
Emitted interference	EN 55011, CISPR11 Cl. B, Gr. 1
Electrical safety requirements	
Product family standard	EN 61010-1
Overvoltage category	II
Pollution degree	2
Safety measurement	61010-2-030
Measurement category	CAT III
Galvanic isolation, test voltages	
Input / output	4 kV, 50 Hz (1 min.)
Protection circuits	
Output	electrical surge and reverse current protection

[1] During checking, slight signal deviations are possible.

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

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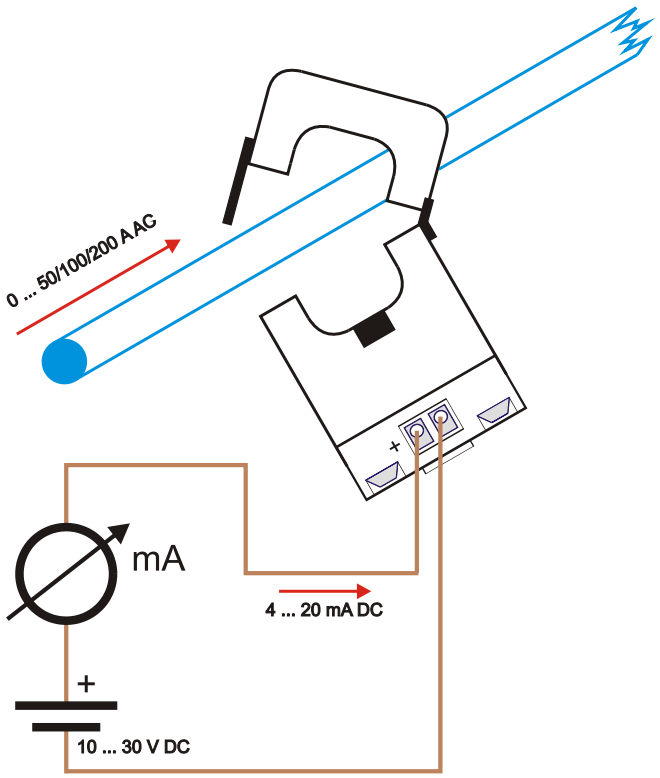
Block and wiring diagram



Dimensions