Isolation Transmitter

AD-TWT 24 GM

Description

The isolation transmitter AD-TWT 24 GM in 2-wire-transmitter technique impress into a supply voltage a standard measurement signal of 4-20 mA. The output signal follows linear the input signal up to a maximum value. The connection of an additional auxiliary voltage is not necessary. It obtains its auxiliary energy from the transmitter supply.

Application

Economical galvanical isolation of a active analog signal in a impressed passive 4-20mA signal (2-wire-transmitter technique).

Specific characteristics

- 2-wire-transmitter technique, low amount of cabling
- output signal of 4-20 mA independent from supply voltage
- compact design (DIN rail)

Business data

Order number	AD-TWT 24 GM

Technical specifications

Input current	
Measuring range	4 ... 20 mA
Required input voltage	2,7 V (4 V no load)
Transmitter output	
Output range	4 ... 20 mA
Feeding voltage	8 - 30 V DC
Residual ripple	max. 0,5 % of full scale
Transmission behaviour	
Basic accuracy	< 0,2 %
Temperature influence	150 ppm/K
Response time	~ 700 ms
Housing	
Dimensions (WxHxD)	13x78x103 mm
Type of protection	IP 20
Connection method	screw clamp
Terminals, wire cross section	2,5 m² flex wire / 4 mm² one wire
Bolting torque terminals	0,5 Nm
Weight	~ 100 g
Manner of fastening	35 mm DIN rail 35mm
Environmental conditions	
Ambient temperature	0 ... 50 °C
Storage and transport	-10 ... 70 °C (no bedewing)
EMC	
Product family standard	EN 61326 [1]
Emitted interference	EN 55011, CISPR11 Cl. B
Electrical safety requirements	
Product family standard	EN 61010-1
Overvoltage category	II
Pollution degree	2
Maximum permanent working voltage across the galvanic isolation	45 V DC
Galvanic isolation, test voltages	
Input / output	510 V, 50 Hz (1 min.)
Protection circuits	
Input	electrical surge and reverse current protection
Output	electrical surge protection

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

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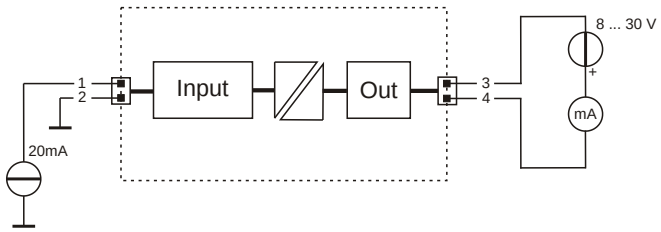
Block and wiring diagram



Dimensions