DATCON
INDUSTRIAL MEASUREMENT

DT1100 ...

CE

Galvanic isolators,
Galvanic isolator / power supplies

Product features:

- 0–20 mA / 4–20 mA / 0–60 mV / ±60 mV / 0–5 V / ±5 V / 0–10 V / ±10 V / 0–60 V / ±60 V inputs
- 0–20 mA / 4–20 mA / 0–5 mA / 0–10 V outputs
- 24 V transmitter power supply
- Non-linearity: 0,01%
- Temperature-coefficient: 50 ppm / °C
- 19–29 VDC supply voltage
- TS-35 rail mounting, 12,5 mm width
- 39 different types

DT1100 □□□

INPUT		OUTPUT				
		I0	**I4**	**I5**	**U10**	
		0–20 mA	4–20 mA	0–5 mA	0–10 V	
I0	0–20 mA	●	●	●	●	
I4	4–20 mA	● ●	● ●	● ●	● ●	
U0.06	0–60 mV	●	●	●	●	
U±0.06	±60 mV	●	●		●	
U5	0–5 V	●	●		●	
U±5	±5 V	●	●		●	
U10	0–10 V	●	●	●	●	
U±10	±10 V	●	●	●	●	
U60	0–60 V	●	●		●	
U±60	±60 V	●	●		●	

24 24 VDC TRANSMITTER POWER SUPPLY

DT1100 □□□ 19–29 VDC POWER SUPPLY

Special ranges that differ from the above are also available upon reques.

1148 Budapest, Fogarasi út 5. 27. ép., HUNGARY
Tel.: +(361) 460-1000 Fax: +(361) 460-1001 www.datcon.hu
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IPARI ELEKTRONIKAI KFT.

The **DT1100 … Galvanic isolators, Galvanic isolator / power supplies** provide signal transmission between the transmitters and the signal processing units, isolating galvanically the input, the output, and the power supply of the device. The types DT1100 … 24 have a 24 VDC transmitter power supply. Upon request, such devices are also available, which are different in input and output from the types shown in the table on the first page.
The transmission-parameters of the isolators are outstandingly good: the non-linearity is <0.01 %, and the temperature factor is < 50 ppm / °C.
The supply voltage range is 19…29 VDC, the apparatus is insensitive refer to the supply voltage.

Technical specifications

Input parameters:	
Input signal:	DC current or DC voltage
Ranges:	see the table on the previous page
Input resistance (current input):	68 ohm
Input resistance (voltage input):	1 Mohm
Overdrive capacity:	5 %
Transmitter power supply:	
Transmitter supply voltage DT1100 ...24:	24 VDC (at 25 mA load)
Output parameters:	
Output signal:	direct current or direct voltage
Ranges:	see the table on the previous page
Burden (current output):	800 ohm (max.)
Load (voltage output):	500 ohm (min.)
Output signal error:	0.05 % (max.)
Non-linearity:	0,01 % (max.)
Temperature-coefficient:	50 ppm / °C (max.)
Supply-voltage effect:	negligible
Response time	10 ms (10–90 %)
Galvanic isolation:	
Operating isolation voltage:	250 Veff (between the input, the output, and the supply voltage terminals)
Test voltage:	2500 VDC
Power supply:	
Supply voltage:	19–29 VDC
Consumption:	2,2 W
Ambient conditions:	
Operatind temperature range:	0–50 °C
Relative humidity:	90 % (max., non-condensing)
Place of installation:	safe area
Installation:	with 5mm space
Elektromagnetic compatibility (EMC):	
accordance with the standard EN 61326:2000	
Immunity:	-B- criterion
Noise emission:	-A- class
Data in general:	
Housing:	terminal assembly box, rail mounting on a TS-35 rail material: polyamide PA6.6
Connection:	screw-fixed type connection
Cross-section of the connected cable:	2,5 mm^2 (max.)
Dimensions:	12,5 x 99 x 115 mm (width x height x depth)
Weigh:	0,15 kg
Protection:	IP 20

The Manufacturer maintains the right to change the technical data.

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