

Isolated converter

3105

- Isolation and conversion of standard DC signals
- Slimline housing of 6 mm
- Response time <7 ms
- Low cost
- DIP-switch configured











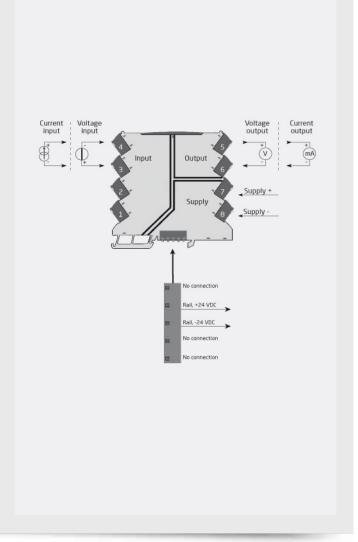
Application

- · Isolation and conversion of standard DC signals.
- Galvanic separation of analog current and voltage signals.
- · Elimination of ground loops and measurement of floating signals.
- · A competitive choice in terms of both price and technology for galvanic isolation of current and voltage signals to SCADA systems or PLC equipment.
- · Suitable for environments with high vibration stress, e.g. ships.

Technical characteristics

- · Easy configuration via DIP-switches.
- The input is protected against overvoltage and polarity error.
- · Factory-calibrated measurement ranges.
- · Inputs and outputs are floating and galvanically separated.

Connections



Туре 3105

Environmental Conditions

Specifications range	0°C to +70°C
Storage temperature	-40°C to +85°C
Calibration temperature	2028°C
Relative humidity	< 95% RH (non-cond.)
Protection degree	IP20
Installation in	Pollution degree 2 & measurement / overvoltage cat. II

Mechanical specifications

Dimensions (HxWxD)	113 x 6.1 x 115 mm
Weight approx	
DIN rail type	
	stranded wire
Screw terminal torque	0.5 Nm
Vibration: 225 Hz	±1.6 mm
Vibration: 25100 Hz	±4 g

Common specifications

Su		

Isolation voltage

Response time

Response time (0...90%, 100...10%)...... < 7 ms Max. power consumption...... 0.8 W

range
Temperature coefficient..... < ±0.015% of span / °C

Input specifications

Current input

Measurement range...... 0...20.5 mA Input voltage drop...... < 1.5 VDC

Voltage input

Measurement range	010.25 V
Functional range	011.5 V / 05.75 V
Programmable measurement ranges	0/15 and 0/210 V
Input resistance	≥ 500 kΩ

Output specifications

Current output

Signal range	020.5 mA (span)
Programmable signal ranges	0 / 420 mA
Load (max.)	23 mA/600 Ω
Load stability	≤0.01% of span / 100 Ω
Current limit	< 28 mA

Voltage output	
Signal range	010 VDC
Programmable signal ranges	0/15 and 0/210 V
Load (min.)	> 10 kΩ
*of span	= of the DIP-switch selected output range

Approvals

Approvais	
EMC	2004/108/EC
LVD	
EAC	TR-CU 020/2011
DNV Marine	Stand. f. Certific. No. 2.4
GL	V1-7-2
ÜL	UL 508