

PASSIVE DC INPUT/OUTPUT ISOLATED TRANSMITTER model PGI-1 and PGI-2



- Two independent isolated channels
- No need of additional power supply
- Input/output isolation (1000 VRMS)
- Input – 0(4)-20mA, not powered
- Output - repeats input 0(4)-20mA isolated output, 2-wire connection
- Accuracy < 0.5 % FS
- Dimensions 45x70x100mm, IP30, 35mm DIN-rail mountable

GENERAL DESCRIPTION

The PGI-2 series transmitter is designed for input/output isolation of sensors, transmitters and other measuring devices or computer input/outputs. They can be used for galvanic isolation of long lines, connecting devices with current inputs or outputs. This isolation reduces the disturbances and increases the safety. The output current is equal to the input current within the error. PGI-2 transmitter is powered by the input current. The voltage drop on the transmitters input is equal to the voltage drop on the output plus 3V DC.

The overall dimensions of the plastic housing are 45x70x100mm, protection IP30, for 35mm DIN-rail mounting.

TECHNICAL SPECIFICATIONS

Input/Output Isolation	min. 1000 VRMS
Input signal	0-20mA or 4-20mA, not powered, 2-wire
Input voltage	equal to the output voltage plus 3V DC
Output signal	0-20mA or 4-20mA, 2-wire
Load Resistance	< 600 Ω
Additional error when changing the load resistance	< -10 ppm / Ω
Accuracy	< 0.5 % FS
Ambient temperature	from 0 up to +55°C
Dimensions	45x70x100mm, 35mm DIN-rail mountable