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#### **GX440**



#### Isolating converters

## Input and output circuit powered isolating module

- isolation and mutual conversion of 0 to 20mA, 4 to 20mA and 0 to 10V signals
- two-wire connection for current signals
- three-wire connection for voltages signals
- isolation electric strength: 4000Vrms
- very low voltage drop across the current input: max. 2.5V
- DIN 35 rail-mounted design
- conversion error < 0,1%
- low cost (no auxiliary power supply built-in )

The module is designed to provide isolation and conversion of standard range currents or voltages signals, namely 0 to 20mA, 4 to 20mA and 0 to 10V. The module comprises no built-in power supply. The converter input and output circuits are therefore powered from the sources of the voltages/currents fed into the input/output terminals.

Current input and output of the converter are two-wire connected. The input circuit is powered from the measured current loop, loading it with a voltage drop of maximum 2.5V. The current output circuit behaves as a variable resistance. From the external power supply, it is controlled a current which is directly proportional to the input signal.

The voltage input and output require three-wire connection. The minus poles of both the external power supply and the signal circuit are connected to the GND terminal.

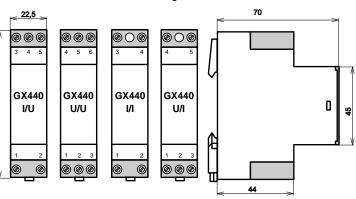
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# Instrument specifications:

- operating temperature range: -25...+ 70°C - storage temperature range: -40...+ 80°C 5...30V DC - three-wire input supply voltage: output:supply voltage: 12...30V - three-wire input supply consumption: max. 2.5mA output:supply consumption: max. 1.5mA - voltage drop across current input: max. 2.5V 3,5...30V DC - current output supply voltage: - max. conversion error: < 0.1% - temperature induced error: < 0.01%/°C - test voltage: 4000Vef - input-to-output capacitance: 10pF - time constant: < 0.1s - weight: 90g

#### Dimension drawing:



#### Type tests:

General type test: to ČSN EN 60770-1 EMC: to ČSN EN 61326-1 Safety: assessed acc. to ČSN

EN 61010-1

#### Terminal connection:

The terminal connection is apparent from the module application block diagrams.

## Ordering instructions:

Your purchase order should include the following:

- converter type
- input range
- output range
- quantity (number of pieces)

## Isolating module application variants:

