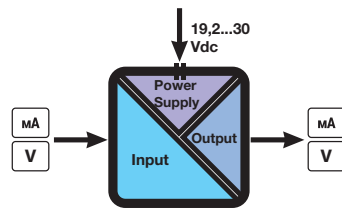


# K109UI

## DC CURRENT/VOLTAGE TO DC CURRENT/VOLTAGE ISOLATOR/CONVERTER



K109UI is a device that accepts mA/V signals able to convert it into mA/V standard signals. It's configurable for input up to 30V (battery voltage monitoring) and all parameters are configurable through dip-switches.

The power supply connection is available on the terminals or a special connector (K-BUS) allows a distribution of the power supply to the modules via bus connector. A 3-way galvanic isolation among Power supply // input // output circuits assures the integrity of your datas.

### TECHNICAL SPECIFICATIONS

#### General Data

Power supply	19,2...30 Vdc
Power consumption	500 mW
Isolation	1.500 Vac (3 way)
Transducer Power Supply	No
Accuracy	0,1%
Response time	40 ms
Status Indicators	Power supply, error
Setting	Dip Switches
Mounting	35 mm DIN rail guide
Protection Degree	IP20
Operating Temperature	-20...+65 °C
Dimension (W x H x D)	6,2 x 93 x 102,5 mm

#### Input

Channel Numbers	1
Voltage	Range: 0..10 / 10..0 / 0..5 / 1..5 / 0..15 / 0..30 V (inversion as well) Impedance: 110 kΩ - 325 kΩ
Current	Range: 4..20 / 20..4 / 0..20 / 20..0 mA Impedance: 35 Ω

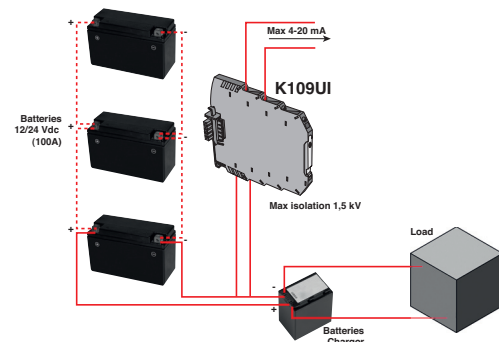
#### Output

Channel Numbers	1
Voltage	Range: 0..10 / 10..0 / 0..5 / 1..5 V Min load resistance: 2 kΩ
Current	Range: 4..20 / 20..4 / 0..20 / 20..0 mA Max load resistance: 500 Ω Protection: 25 mA

#### Standard

Approval	CE
Norms	EN 50081-2; EN 55011; EN 50082-2; EN 61000-2-2/4; EN 50140/141; EN 61010-1

### APPLICATION NOTE



### ORDER CODES

Code	Description
K109UI	DC current / voltage to DC current/voltage isolator/converter

### ACCESSORIES & SOFTWARE



**K-BUS**  
Backplane for power connection  
pg. 114



**K-SUPPLY**  
Redundant power supply module  
pg. 114

### SIMILAR PRODUCTS



**K109S**  
DC current / voltage to DC current/voltage isolator/converter (with power for 2-wire sensors)  
pg. 104



**Z109UI**  
DC current / voltage to DC current/voltage isolator/converter  
pg. 80



**Z109S**  
DC current isolator  
pg. 81

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