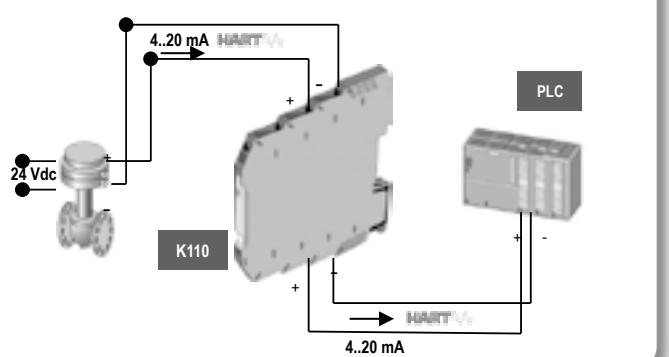


K LINE Compact Signal Conditioners & Isolators

APPLICATION EXAMPLES

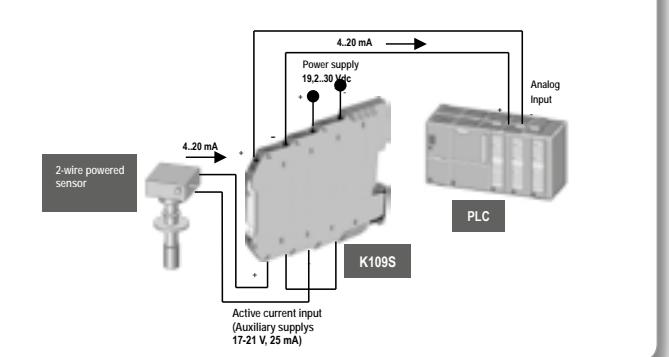
K110

Isolation and current loop re-transmission with Hart protocol



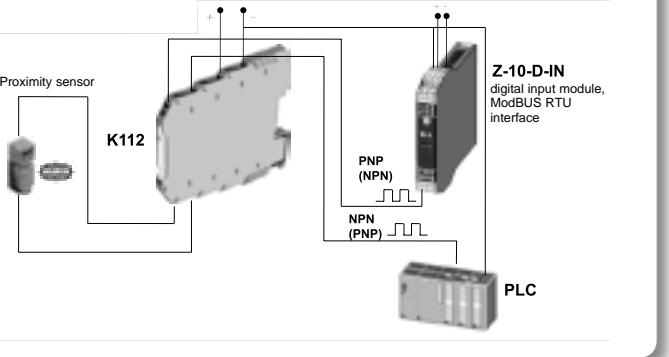
K109S

Isolation and re-transmission to PLC of an analog signal from a 2 wire sensor



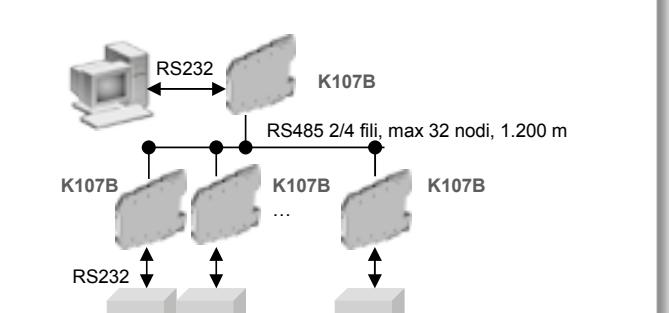
K112

Isolated digital coupling between namur sensor – data acquisition system



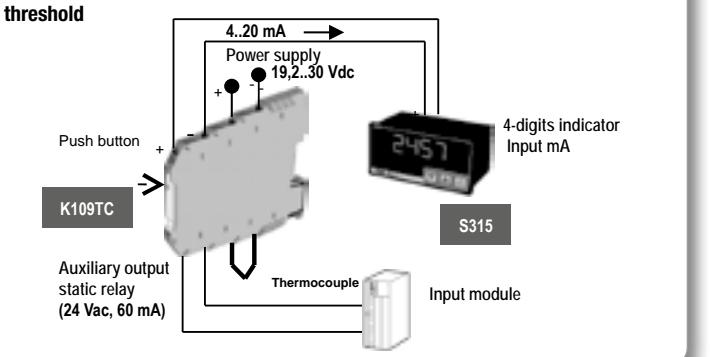
K107B

RS232/RS485 bi-directional remote transmission with isolation up to 32 nodes



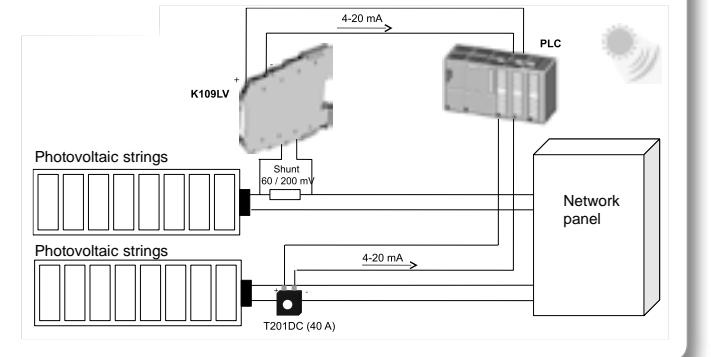
K109TC

Re-transmission, isolation and control signal on through the temperature threshold



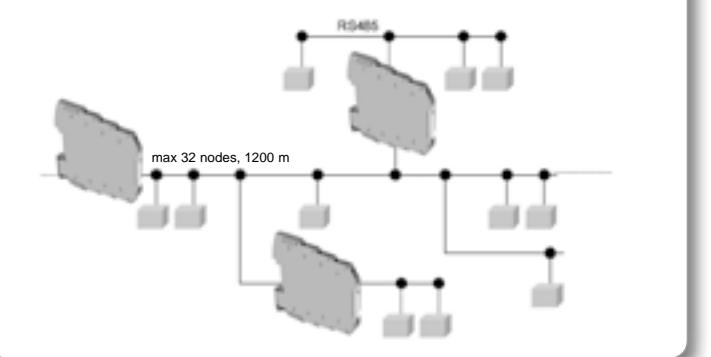
K109LV

Measurement and transmission of string current in a photovoltaic system



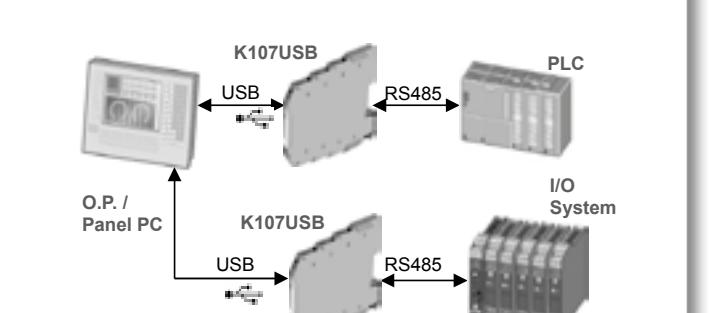
K107A

Multiple serial connection RS485 (Modbus) with isolation



K107USB

Multiple connection and data transmission with USB/RS485 isolation



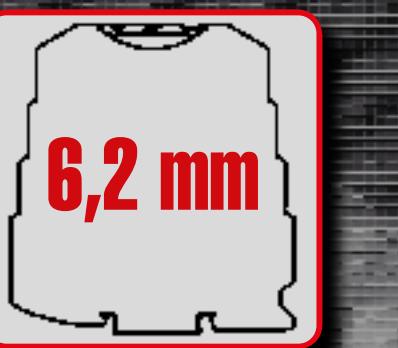
10 good reasons to choose K LINE



HIGH LEVEL RELIABILITY



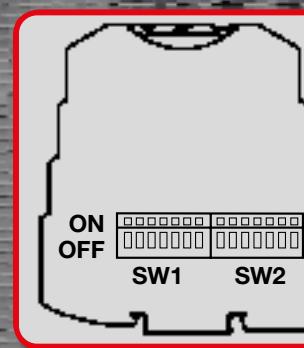
PC PROGRAMMING



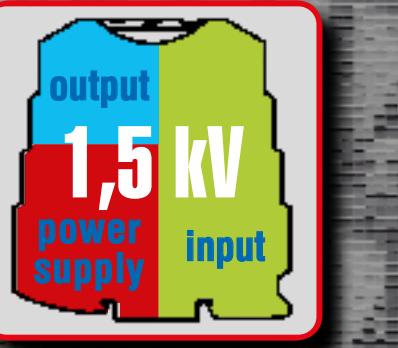
COMPACT SIZE



BEST ACCURACY



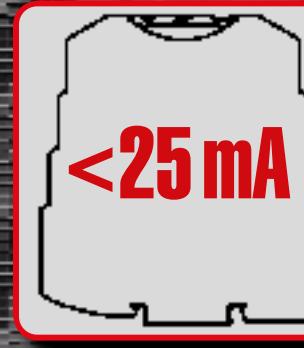
FLEXIBLE CONFIGURATION VIA DIP-SWITCHES



ISOLATION 3-WAY



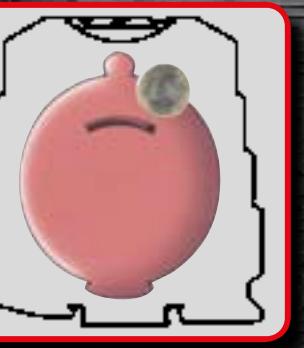
WIDE OPERATING TEMPERATURE



LOW POWER CONSUMPTION



INTERNATIONAL STANDARDS



COST EFFECTIVE

K LINE

Compact Signal Conditioners & Isolators



Galvanic Isolation



Digital / Frequency Conversion



Temperature conversion (TC, RTD)



Analog conversion (mA, V, mV)



Serial conversion (RS232, RS485, USB)



SENECA

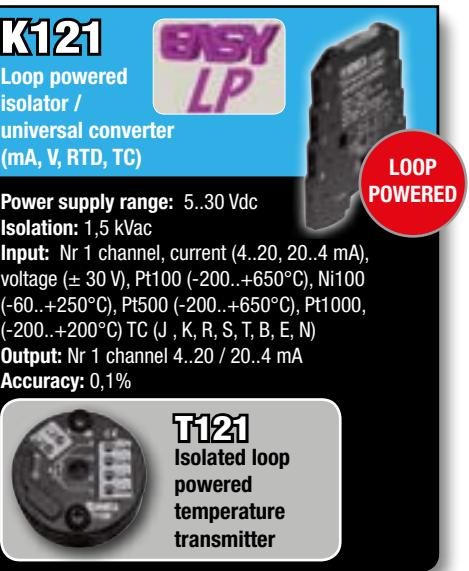
Via Germania, 34 • 35127 Padova - (Italy) - Tel. +39 049 87.05.359 (.408)
Fax +39 049 87.06.287 • www.seneca.it • info@seneca.it

KLINE 002EN

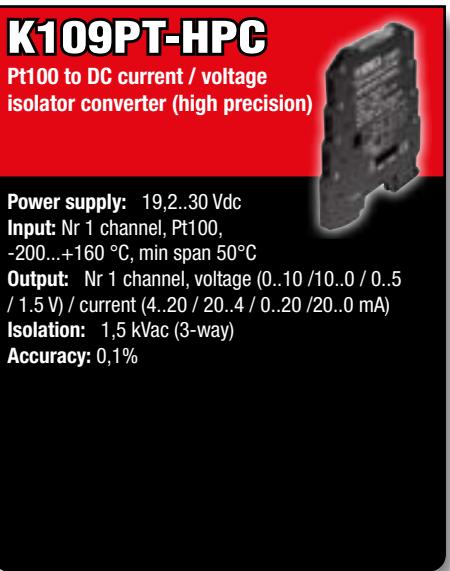
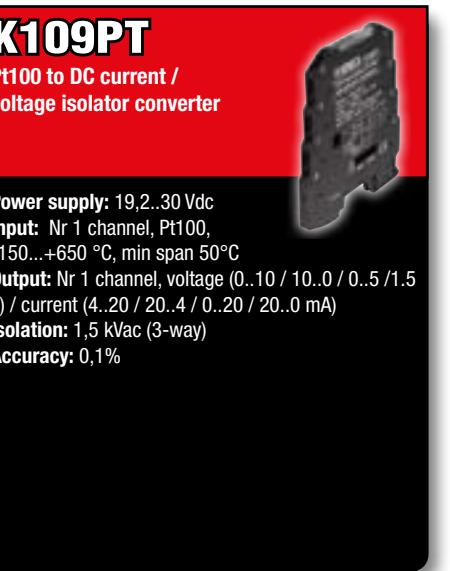
S SENECA

K LINE Compact Signal Conditioners & Isolators

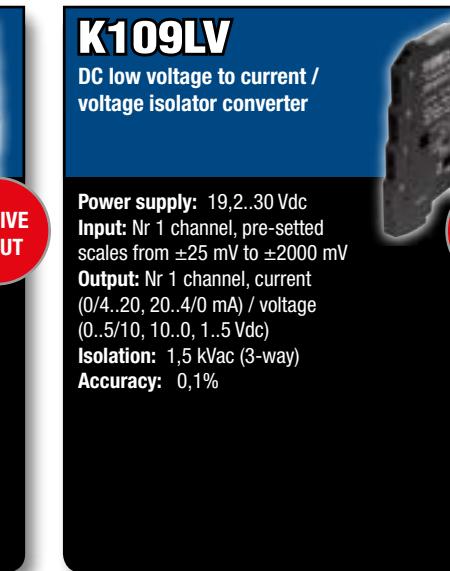
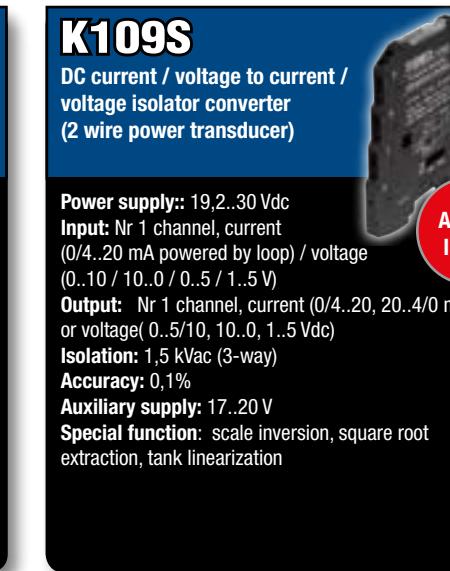
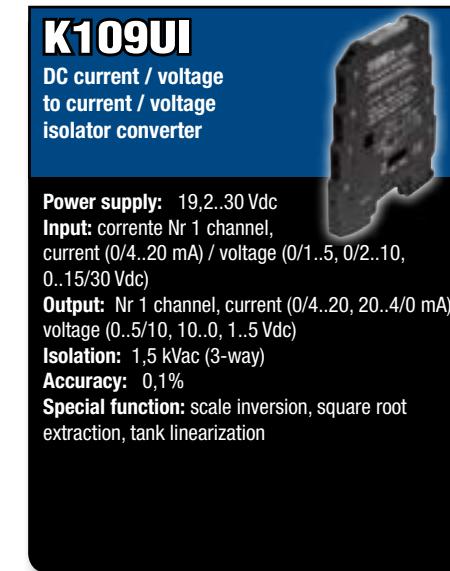
UNIVERSAL



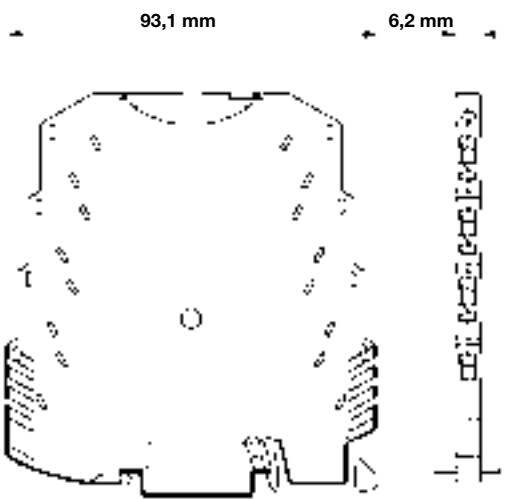
TEMPERATURE



ANALOG



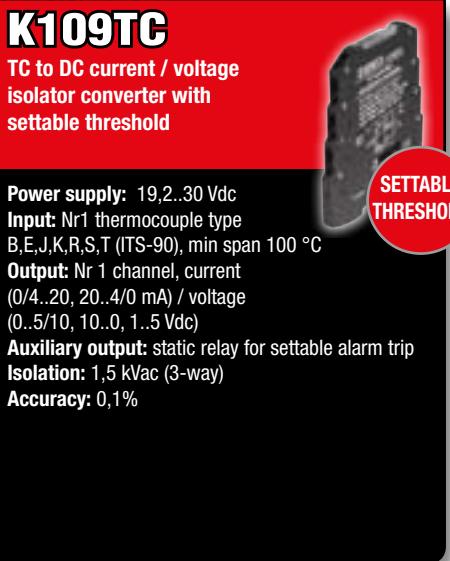
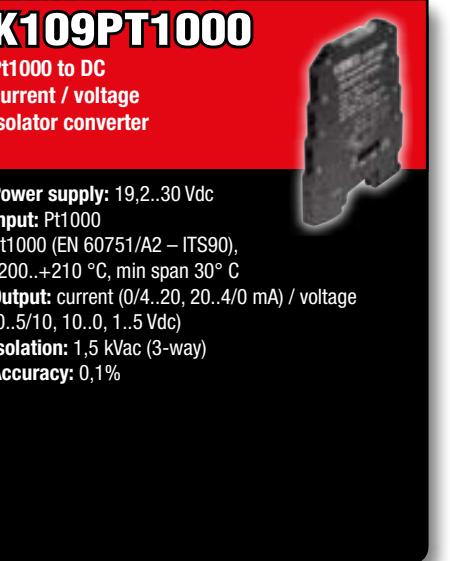
K LINE Compact Signal Conditioners & Isolators



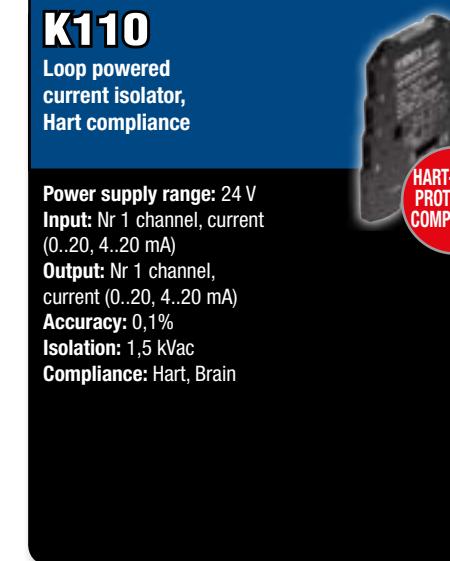
| | |
|---------------------------------|---|
| Power supply range* | 19,2..30 Vdc |
| Bridge supply | Bus connectors (K-BUS) can be snapped into 35 mm DIN rail according to EN 60175 |
| Wire section | 0,2..2,5 mm ² |
| Wire stripping | 8 mm |
| Power on side terminals | yes |
| Hot swapping | yes |
| Max current consumption* | 21..25 mA (24 Vdc) |
| Consumption without load @ 25°C | 7,5 mA |
| Max power consumption | 500 mW |
| A/D conversion | 16 bit |
| Rejection | 50 o 60 Hz (programmable) |
| Settings | DIP switch, software |
| Filter | Insertable |
| Dimension | 93,1 x 6,2 x 102,5 mm |
| Isolation | 1,5 kV (50 Hz, 1 min) |
| Isolation technique | Digital (optocoupler) |
| Processing | Floating point 32 bit |
| Colour | Black |
| Case material | PB1 |
| Weight | 45 g |
| Operating temperature | -20..+65 °C |
| Storage temperature | -40..+85 °C |
| Humidity | 10..90 % non condensing |
| Connection | Clamp terminals and/or BUS |
| Protection degree | IP 20 |
| Conformity | CE, UL-UR CSAEN 50081-2, EN 50082-2, EN 61010-1, EN 60742, EN 61000-6-4, EN 61000-6-2 |

* except loop powered versions

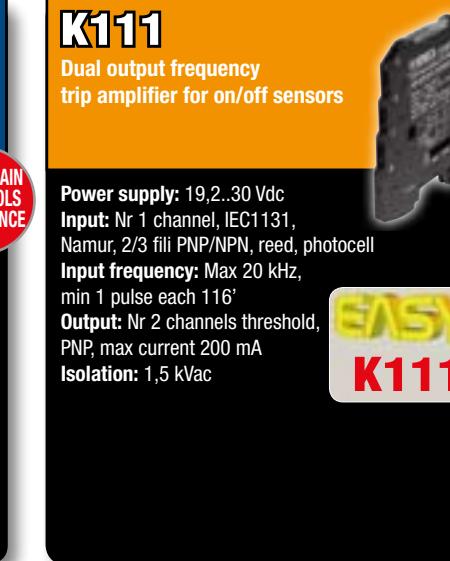
TEMPERATURE



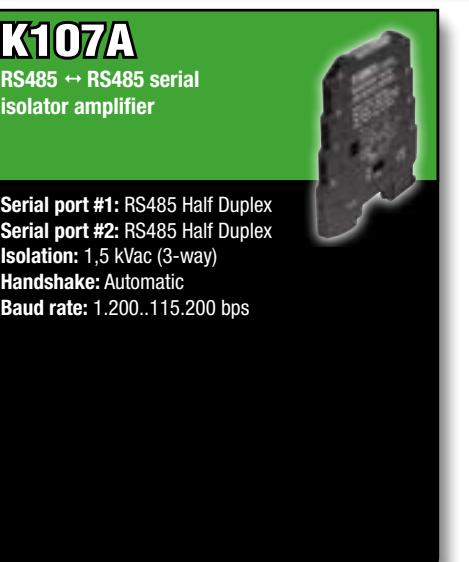
ANALOG



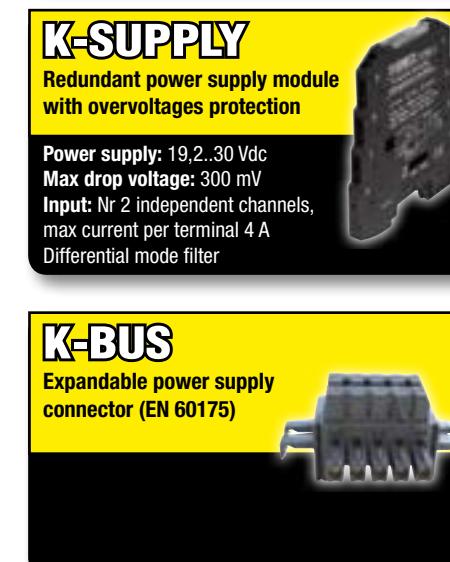
DIGITAL / FREQUENCY



SERIAL



ACCESSORIES & SOFTWARE



POWER SUPPLY TECHNIQUE

SUPPLY SYSTEM. With the exception of loop powered instruments, which aren't bus powered, K Line signal conditioners can be powered in 3 different ways: by the springcage terminal block (24 Vdc direct from power supply) or by SMART SUPPLY system. SMART SUPPLY system is based on expandable KBUS connector. Up to 16 devices, the distribution of power supply is possible connecting a single device at voltage source, as whole consumption doesn't exceed 400 mA. Over 16 and up to 75 devices, with maximum current consumption of 1,6 A (approx 21 mA per module), it's needed K-SUPPLY module that gets overvoltages protections on-board.

