

- Programmable temperature and process input**

Volt ,mV, mA, potentiometer  
 thermocouple, RTD PT100

- 2 wire Loop powered**

powered by 4-20mA current loop

- Galvanic isolation**

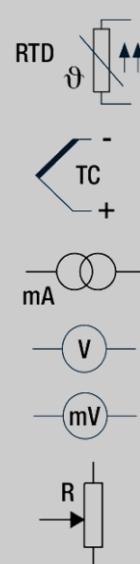
1000V input / output

- Fully configurable**

RS232 link

- High thermal stability**

50 ppm



The CNL 45 is an isolated numeric transmitter powered by the 4-20 mA current loop, combining the ease of use of loop powered device with the flexibility of programmable converters.

#### DESCRIPTION:

##### Temperature input :

- thermocouples with linearization and cold junction compensation
- platinum RTD probe (PT100 2 or 3 wires mounting) with linearization and line length compensation.

##### Process input :

- voltage mV, V,
- current mA,
- potentiometer from 1 kOhm to 200 kOhms,
- resistance,

##### Output :

- 2 wires 4-20mA current (loop powered),
- programmable response time from 0.2 to 60 seconds,
- programmable output security value when sensor breaking,
- normal or reverse output,

##### Additional functions :

- special linearization configurable on 20 points,
- square root extraction,
- adjustment of measure offset.

##### Front face :

- Jack 3.5 plug for device configuration
- Green led for loop current presence,

##### Feature:

- DIN rail mounting, IP20
- connection on 2.5 mm<sup>2</sup> screw-terminals,
- protection against reverse polarity,
- test terminals for controlling current without opening the loop,
- configuration settings saved in FLASH, data retention > 20 years,
- "Watchdog" controls the good program running,
- input / ouput galvanic isolation,
- conformal coating.

#### CONFIGURATION:

The **CNL45** can be configured via the serial RS232 link (jack 3.5), with any system emulating a terminal.

- No specific software required.
- USB - jack 3.5 adapter provide separately.

Via the terminal, the user will can:

- see the measures, shift the measure
- setting the transmitter parameters: input range, output range, filter, ...

Warning the RS232 link is not isolated from measure inputs (check the absence of hazardous voltage on inputs before any configuration).

