

• **Programmable temperature and process input**

Volt ,mV, mA, potentiometer

thermocouple, RTD PT100

• **2 wire Loop powered**

powered by 4-20mA current loop

• **Galvanic isolation**

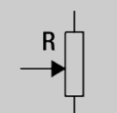
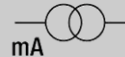
1000V input / output

• **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 mm² 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 / output galvanic isolation,
- conformal coating.

CONFIGURATION:

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

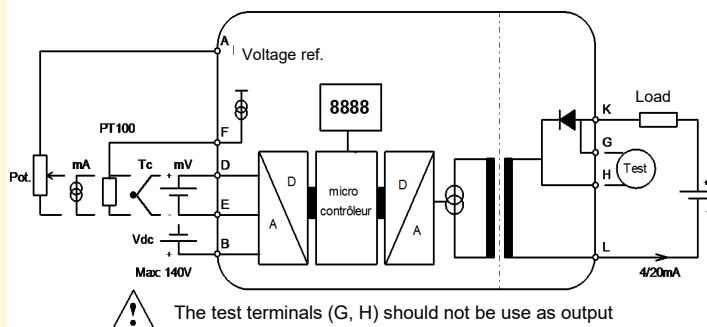
- No specific software required.
- USB - jack 3.5 adapter provide separately.

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).

Synoptic



Version and order code :

CNL45 : Standard version

CNL45L : Low cost version

