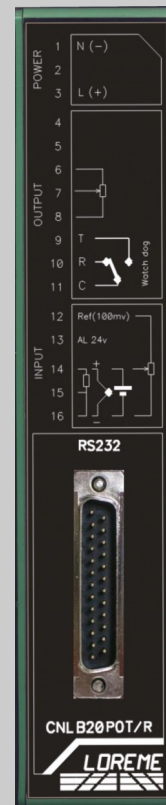


Converter for analog input to resistance or potentiometer output

type : CNLB20pot

LOREME

- **All type of voltage input, current, temperature**
4..20mA , 0..10V , Pt100 , Thermocouple
- **Fully configurable**
- **Ohmic output 2 or 3 wires**
256 conversion step
- **Transfer function adjustable**
with 51 points of linearization
- **Fully isolated**
- **Pluggable terminal blocks**



The CNLB20pot is design to convert an analog signal (4....20mA; 0...10V or other) to a resistance or potentiometer output.

DESCRIPTION:

The CNLB20pot allows any input type:

- Temperature :
 - thermocouples : linearized, cold junction compensation internal or external,
 - Resistance sensor : linearized, line length compensation.
- mA, mV, V
- resistance variation,
- Sensor supply: 24 Vdc,
- Potentiometer reference: 100 mV.

CALCULATION FUNCTION:

- Square root,
- Measure range conversion,
- Configurable special linearization (51 points maxi).

OUTPUT:

The ohmic output is on 256 step. Usable on variable resistance or potentiometer or PT100 simulation.
The ohmic values are to be defined at order.

FEATURES:

- DIN rail mounting,
- Power supply: 230 Vac,
- low consumption: 3 VA,
- galvanic isolation input/output/power supply,
- setting parameters are saved on EEPROM memory,
- Noise immunity and adjustable measure filter,
- stability for room temperature variation,
- accuracy class 1 %.

CONFIGURATION:

The CNLB20pot is configurable via the RS232 link in any system who can emulate a terminal.
The user can easily configure all parameters of device

USB-RS232 interface cord provided separately.

With the terminal, the user can :

- read the measure value, the active configuration,
- setting the device parameters,
- offset the measure

Version and order code:

[Request a quote](#)

CNLB20/POT : converter with potentiometer output

ENTREE

Type	Range	Accuracy
Low level voltage	-10 / 110mV	+/- 20uV
High level voltage (with attenuator)	-1 / 11V	+/- 2mV
Current (on 5 ohms shunt)	0 ... 4 ... 20mA	+/- 2uA
Resistance	0 / 356 ohms	+/- 0.1 ohms
Pt100	-200 / 600°C	+/- 0.3°C
Tc B	200 / 1800°C	+/- 2°C
Tc E	-250 / 1000°C	+/- 0.25°C
Tc J	-200 / 600 °C	+/- 0.4 °C
Tc K	-200 / 1350 °C	+/- 0.5 °C
Tc R	0 / 1750 °C	+/- 1.5 °C
Tc S	0 / 1600 °C	+/- 1.5 °C
Tc T	-250 / 400 °C	+/- 0.37 °C
cold junction compensation T°	0 / 60 °C	
Other thermocouple on request		
Cycle of measure	18 per second	
Response time	~150ms	
Sensor supply	19 V filtered	
for rating voltage supply		
Potentiometer reference	100 mV	

POWER SUPPLY

230Vac (50-60Hz) +/- 10%
consumption 2VA

OUTPUT

Resistance value on 256 steps. The min and max value must be defined at order.

ENVIRONMENT

Operating temperature	-20....+60 °C
Storage temperature	-20....+85 °C
thermal drift	0.005 % / °C
Humidity	85 % non condensed
weight	~ 380 g
protection rating	IP20
Dielectric strength	2000Vac continuous
(Input/output/power supply)	

Electromagnetic compatibility 2014/30/UE / Low Voltage Directive 2014/35/UE

Immunity standard for industrial environments EN 61000-6-2		Emission standard for industrial environments EN 61000-6-4
EN 61000-4-2 ESD	EN 61000-4-8 AC MF	EN 55011 group 1 class A
EN 61000-4-3 RF	EN 61000-4-9 pulse MF	
EN 61000-4-4 EFT	EN 61000-4-11 AC dips	
EN 61000-4-5 CWG	EN 61000-4-12 ring wave	
EN 61000-4-6 RF	EN 61000-4-29 DC dips	



WIRING AND OUTLINE DIMENSIONS:

