

- **Process input**
- **Bipolar input and output (+/-)**
- **Fully configurable (RS232)**
- **2 analogs outputs in standard**
- **Low response time: 55 ms**



The CNL23 is a digital converter for process inputs, its quickly reconfiguration without adjustment of measurement range, allows to replace advantageously an analog converter.

FONCTIONALITY:

Measure:

- current +/- 20mA, sensor power supply,
 - voltage +/- 10 V, +/- 100 V,
 - potentiometer 1 kOhms, 10 kOhms,
- Each range is programmable under this limits.

Outputs:

- The CNL 23 has 2 individually configurable analog outputs, 0 ... 4 ... 20 mA or 0 ... 10 V, not insulated between each other and with a common ground. (insulated output option)
- A bipolar voltage output -10 ... +10v is available if two outputs are use simultaneously.

General characteristics:

- DIN rail mounting (symmetrical / asymmetrical)
- connection on 2.5 mm² screw-terminals
- regeneration of internal parameters for each measurement,
- saving of the configuration parameters in FLASH, safety of data holding > 10 years,
- watchdog supervising the program process,
- galvanic insulation input/ output/ power supply,
- possibility of upgraded the soft in factory.

DIALOGUE - CONFIGURATION:

The CNL 23 can interact via the serial RS 232 link (jack 3.5)with any system emulating terminal,

Example: Terminal programme in Windows: (free supply of cable on single request).

Its user-friendliness and its programming simplicity allow the user to make a complete configuration in a record time.

Warning: The RS 232 link is not insulated from output.

Transmission format:

- 9600 bauds, 1 start bit, 8 data bits, 1 stop bit.

Through the terminal, the user will be able to:

- visualize the measure,
- make the configuration of the device,
- shift the measure.

The configuration mode allows to choose:

- the type and the range of the input signal,
- the type and the range of the output signals.

INPUT (resolution > 12 bits)		
TYPE	RANGE	ACCURACY
Low level voltage input impedance	+/- 10 V	+/- 0.01 V
High level voltage input impedance	100 kOhms	
Current input impedance	+/- 100 V	+/- 0.1 V
	1 MOhms	
Current input impedance	+/- 20 mA	+/- 0.01 mA
	12 Ohms	

AUXILIARY		
Sensor power supply for nominal power supply voltage		21 V smoothed
Potentiometer reference		5 V regulated
Response time		55 ms

**POWER SUPPLY
(to specify at the order)**

230 Vac 50-60 Hz +/- 10 %, 3.2 VA
 115 Vac 50-60 Hz +/- 10 %, 3.2 VA
 20 to 70 Vac / Vdc, 3.2 VA
 80 to 265 Vac / Vdc, 3.2 VA
 9 to 30 Vdc, 3.2 W

Protected to reverse polarity against,

OUTPUT (resolution 12 bits)		
TYPE	RANGE	ACCURACY
Current S1 and S2 Load	0 ... 4 ... 20 mA	+/- 10 µA
	550 Ohms	
Voltage S1 and S2 output impedance	0 ... 10 V	+/- 10 mV
	500 Ohms	
Voltage S3 output impedance	-10 ... 0 ... 10 V	+/- 10 mV
	1 kOhms	

RECOMMENDED OPERATING CONDITIONS

Temperature operating	-10 to +60 °C
storage	-20 to +85 °C
influence	0.004 % / °C (% of the full scale)
Relative humidity	85 % (not condensed)
Weight	~ 200 g
Protection	IP20

Electromagnetic compatibility

Generic standards: **NFEN50081-2 / NFEN50082-2**

EN55011	meet	group 1 / class A	
EN61000-4-2	no influence	B	ENV50140 < +/- 5 % A
EN61000-4-4	< +/- 5 %	B	ENV50141 < +/- 10 % A
EN61000-4-5	< +/- 5 %	B	ENV50204 no influence A
EN61000-4-8	no influence	A	
EN61000-4-11	< +/- 5 %	B	DBT 73/23/CEE



WIRING AND OUTLINE DIMENSIONS:

