PT100 temperature converter 0...10V output 6 channels — *Type: CTL105*

- ***Up to 6 measure channels***
  Platinum sensor inputs
  0….10V voltage output
- ***Fully configurable***
  Range, filter, offset,….
- ***"Low cost" application***

The CTL105 is a programmable multi channels temperature converter. It may be used for the treatment of PT100 temperature sensors to convert in analog signals. Mainly designed for instrumentation of full systems : Motors, heat pump, wind turbine, ...

Description :

Temperature inputs:
- Up to 6 platinum sensors probes (2 or 3 wires mounting) with linearization

Signal processing:

- individual channel inhibition
- programmable security value for sensor breaking (short-circuit or open circuit)
- programmable response time from 1 to 60 sec, (measure filtering function)
- normal or reversed output,
- offset adjustment of each channel,

In option :
- special function for max value, min value, average value

Feature:

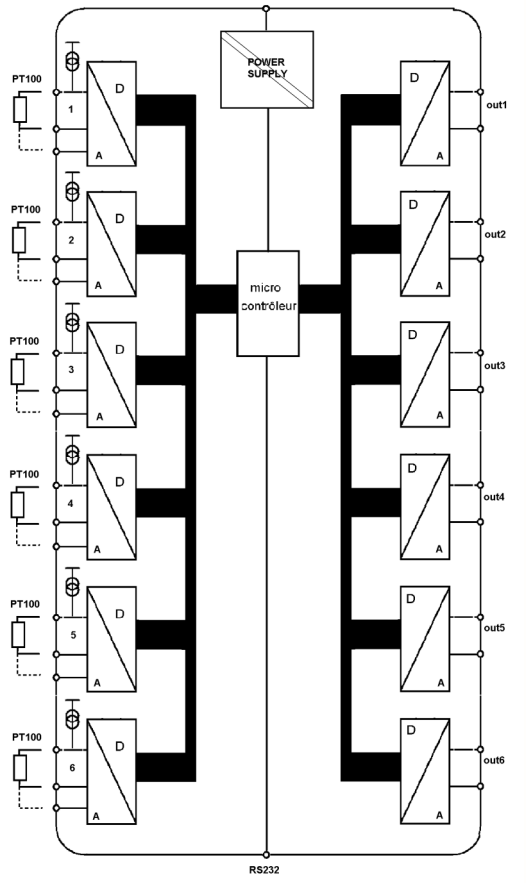
- symmetrical DIN rail mounting,
- connection on screw terminal blocks (2.5 mm² max),
- configuration via RS232 link,
- Configuration parameters saving on Flash memory, safety of data holding > 30 years,
- conformal coating,
- protection rating (enclosure / terminal blocks) : IP20.
- option: mounting within a IP65 enclosure

Configuration:

The CTL105 is user configurable via the serial RS 232 link with any terminal software, under any operating system.
- no need of special software,

Through the terminal, the user will be able to:
- visualize the measure, shift the measures,
- setting the device parameters: input range, output range, filter..

Synoptic:



Version and order code:

Request a quote

CTL105/2	:	2 x PT100 inputs / 2 x 0...10V outputs
CTL105/3	:	3 x PT100 inputs / 3 x 0...10V outputs
CTL105/4	:	4 x PT100 inputs / 4 x 0...10V outputs
CTL105/5	:	5 x PT100 inputs / 5 x 0...10V outputs
CTL105/6	:	6 x PT100 inputs / 6 x 0...10V outputs

90 days accuracy (20 °C +/- 2 °C) *DATA SHEET CAN BE DOWNLOADED ON* WWW.LOREME.FR

TECHNICAL SPECIFICATIONS

INPUT (16 bits resolution)

TYPE	RANGE	ACCURACY
PT100	-200 / 800°C	± 0.3 °C (3 wires)

The accuracy in 2 wires mounting depends of wires resistance between probe and terminals (offset correction is possible)

measure current	900 µA
Measure rate	6 per second

(all inputs are with common ground)

OUTPUT (10 bits resolution)

TYPE	RANGE	ACCURACY
Voltage	0...10 V	± 20 mV
Security value	0 ... 11 V (programmable)	
Permissive load	mini 1KOhms	
Load influence	negligible	
Response time	1000 ms to 60 s	

(all outputs are with common ground)

POWER SUPPLY

Voltage	230 Vac +/- 15%
Frequency	45….70 Hz
Consumption	< 2.3VA

(other supply voltage on request)

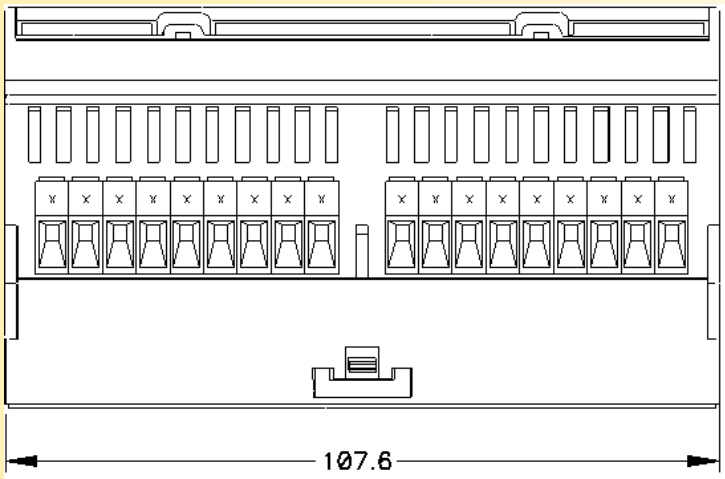
ENVIRONMENT

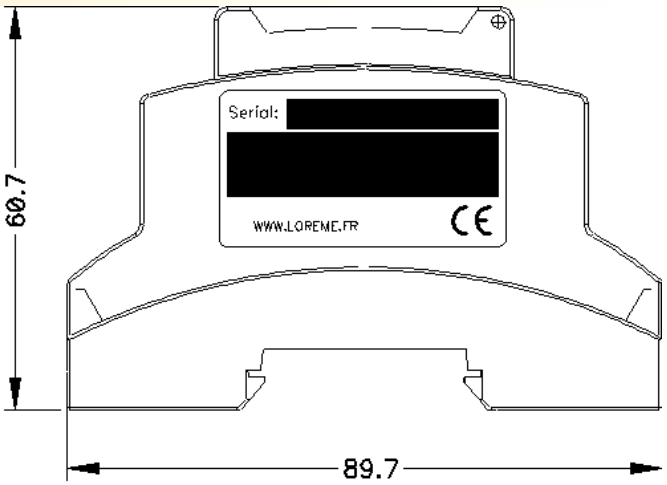
Operating temperature	-20 to 70 °C
Storage temperature	-20 to 85 °C
thermal influence	< 0.01 % / °C
Humidity	85 % non condensed
Weight	120 g
Protection rating	IP 20

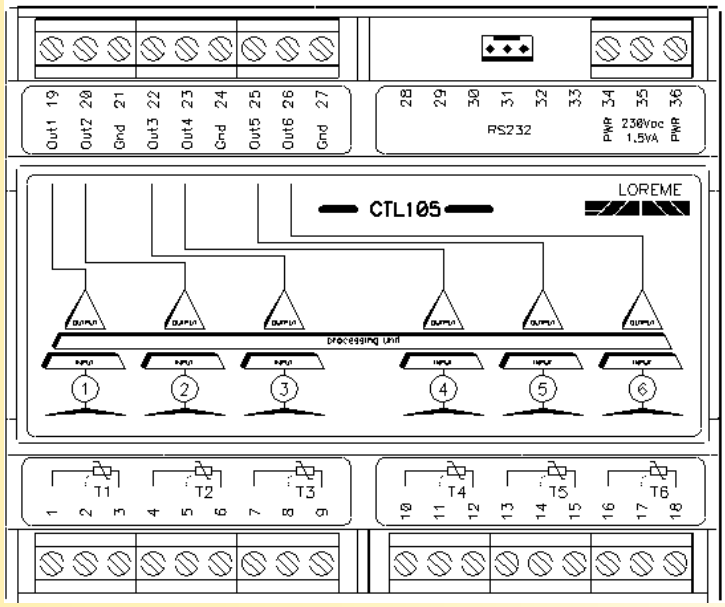
Electromagnetic compatibility 2014/30/UE / Low Voltage Directive 2014/35/UE

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*
EN 61000-4-3 RF	*EN 61000-4-9 pulse MF*	
EN 61000-4-4 EFT	*EN 61000-4-11 AC dips*	*group 1*
EN 61000-4-5 CWG	*EN 61000-4-12 ring wave*	*class A*
EN 61000-4-6 RF	*EN 61000-4-29 DC dips*	

WIRING AND OUTLINE DIMENSIONS:







OPTION: IP65 BOX - 6 MODULES
height (external): 200mm Width (external): 159mm
Depth (external): 112mm
Color: Light Grey IP65 Matter: Polystyrol