Multi-channels PT100 temperature converter LCD display
Maxi, Mini, average output   *TEMAX105LCD*

LOREME

- ## Temperature input
  Up to 4 platinum RTD

- ## 2 wires transmitter
  (4-20mA current loop powered)
  Output current is an image of maximum,
  minimum or average of temperature inputs

- ## Display : *2 lines of 16 characters LCD*
  Display simultaneously the four temperature inputs

- ## Fully configurable

TEMAX105LCD is a 4-20mA loop powered digital transmitter with LCD display allowing signal processing of Pt100 temperature sensors (maximum value, minimum value, average value).

Description :

Temperature inputs:
- 4 Pt100 (2 wires) with linearization

Signal processing:
- maximum value, minimum value, average value
- individual channel inhibition
- programmable security value for sensor breaking (short-circuit or open circuit)
- programmable response time from 0.2 to 60 sec, (measure filtering function)
- normal or reversed output,
- offset adjustment of each channel,

Display:
- STN liquid crystal (extended temperature range),
- 2 lines of 16 characters (4 temperatures display)
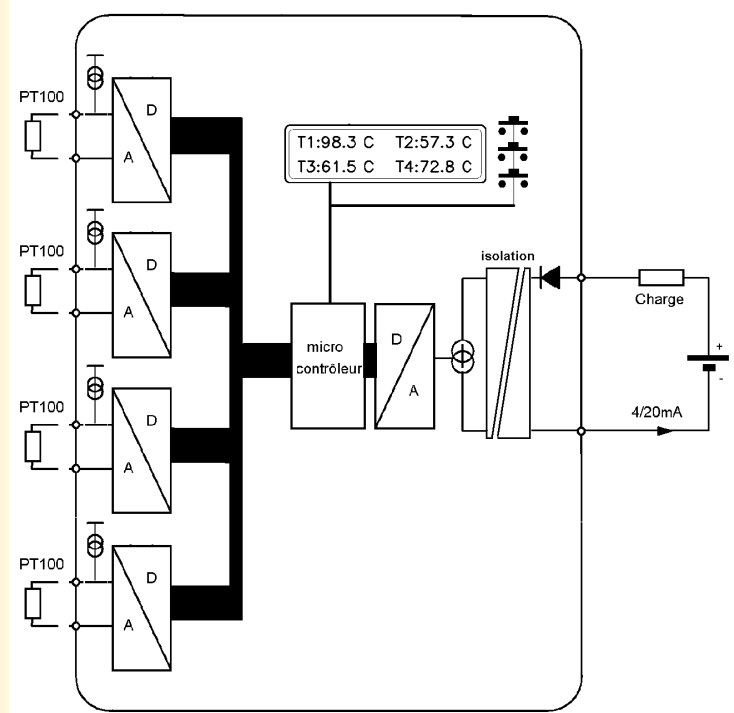- automatic positioning of decimal point

Feature:
- symmetrical DIN rail mounting,
- connection on screw terminal blocks (2.5 mm² max),
- protection against reverse polarity,
- 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 TEMAX105 is user configurable via the push buttons or a 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 measure,
- set the device: input range, output range, filter..

Synoptic:

Version and order code:

Request a quote ✉

TEMAX105LCD/2 :	2 RTD inputs version
TEMAX105LCD/3 :	3 RTD inputs version
TEMAX105LCD/4 :	4 RTD inputs version

INPUT (24 bits resolution)

TYPE	RANGE	ACCURACY
4x 2 Wires RTD	-200 / 800°C	± 0.3 °C
measure current	300 µA	
Measure rate	6 per second	

OUTPUT (14 bits resolution)

TYPE	RANGE	ACCURACY
Current	4 / 20 mA	± 0.01 mA
Security value	3.7 ... 22 mA	
Permissive load	550 Ohms @ 24Vdc	
Load influence	0.004 % / 100 Ohms	
Response time	200 ms to 60 s	
Intrinsic power consumption		< 3.7 mA

POWER SUPPLY

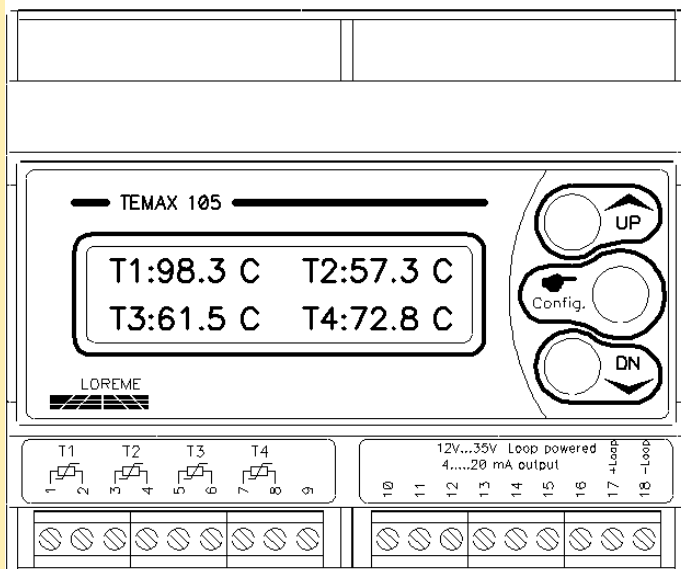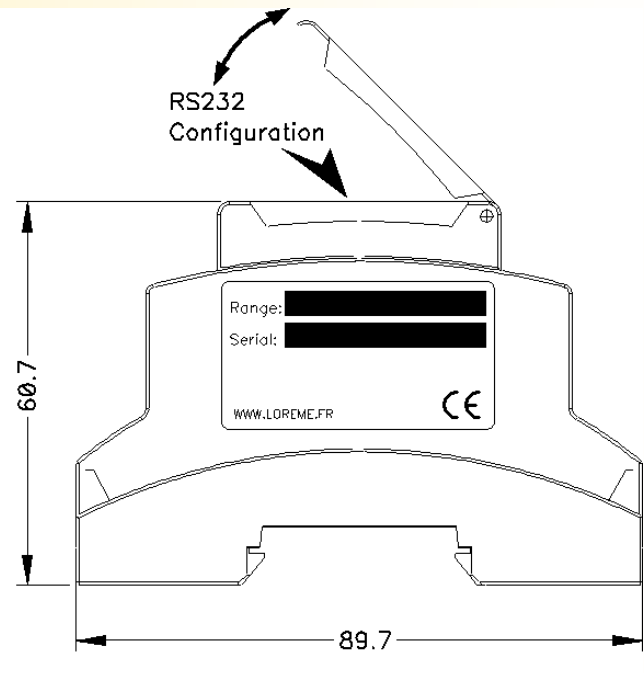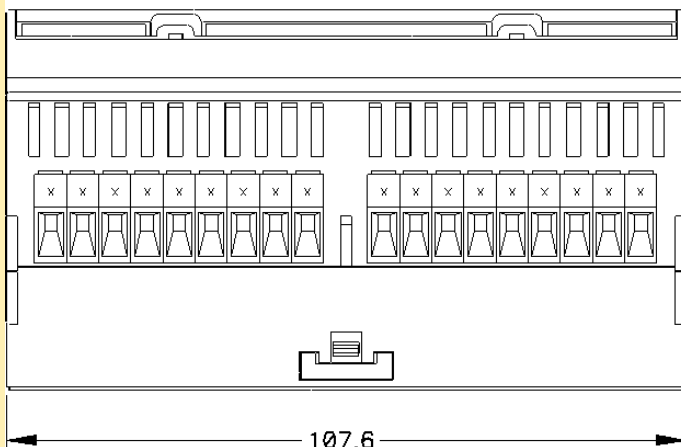|	
Voltage (4-20mA current loop powered)	13 to 40 Vdc
Power supply influence	0.002 % / V

ENVIRONMENT

Operating temperature	-20 to 60 °C
Storage temperature	-20 to 85 °C
Temperature Influence	< 0.01 % / °C
Humidity	85 % not 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*	

CE

WIRING AND OUTLINE DIMENSIONS:

RS232 Configuration

Range:
Serial:
WWW.LOREME.FR   CE

60.7

89.7

107.6

TEMAX 105

```
T1:98.3 C    T2:57.3 C
T3:61.5 C    T4:72.8 C
```

UP
Config.
DN

LOREME

T1	T2	T3	T4	12V...35V Loop powered 4.....20 mA output
1 2	3 4	5 6	7 8 9	10 11 12 13 14 15 16 17 +Loop 18 -Loop

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