- Universal: more than 10 types of input (temperature and process)
- Calculator: calcul operation on 2 channels
- Wide range of power supplies
- 95B200: DIN rail case
-95R200: rack card
- 95(R,B)200/C: RS485 modbus link
-95(R,B)200/S: 1 analog output
-95(R,B)200/A: 4 digits display
- 95B200/S2: 2 analog outputs (box version)


95R200


95B200

The $95(R, B) 200$ is an up-market converter mainly intended for applications requiring a very high accuracy while allowing the treatment of a wide range of signals.

## FUNCTIONALITY:

## Measures:

- thermocouples (type: B, E, J, K, R, S, T), cold junction compensation (internal, external or deported), 2-,3- or 4-wires Pt 100, Pt 1000, line length compensation,
- mA, sensor pwr.supply, mV, V, resistance variation,
- strain gauge, potentiometer,
- frequency, counting (no saved).


## Calculation functions:

Converter mode:

- measure range,
- square root,
- special linearization on 18 pts,


## Calculator mode:

- 2 configurable mV inputs, non insulated,
- 1 measure range on each input,
- 2 coefficients $A x+B$ on each input,
-1 operation between the 2 inputs: $+,-,{ }^{*}, /$,
- 1 range for the analog output.


## Outputs:

The 95(R, B$) 200$ has two configurable relays :

- sensor breaking detection,
- threshold detection (alarm), direction, threshold, hysteresis,
- positive or negative security, delay.

The device is equipped with one slot that can receive either:

- one configurable analog output (insulated or not):
current or voltage output type,
output scale,
security value,
response time, limitation.
- one configurable RS485 MODBUS / JBUS digital link: address, 1 to 255 ,
transmission speed, 600 to 38400 bauds, parity even, odd, without, data format in 32 bits floating IEEE,
measure reading, configuration reading and writing (input).


## Display:

The device has a display allowing to visualize the measure:

- 10000 points resolution,
- automatic or manual positioning of the decimal point,
- sensor breaking indication, alarm lights.
- adjustment of the alarm thresholds with push buttons, possibility to lock the adjustment in RS 232 configuration.


## GENERAL CHARACTERISTICS:

## General points:

- power supply 230/115 Vac commutable, 3 VA, on request 24/48 Vcc,
- plug-in connector, connection with screw-terminals,
- Europe format card $100 \times 160$ width 4TE, $20 \mathrm{~mm}, 95 R 200$.
- galvanic insulated input / output / power supply / relay,
- saving of the configuration parameters in EEPROM, safety of data holding > 10 years,
- noise immunity and programmable filtering of the measure,
- watchdog supervising the program process,
- regeneration of internal parameters on each measure,
- neutralization of surrounding effects thanks to acquisition circuit self zero.


## DIALOGUE - CONFIGURATION:

The device can interact via the RS232 link with any system emulating a terminal. Example: HyperTerminal in Windows.
Free supply on single request of RS232 cable.
Warning: the RS232 link is not insulated from input measures. Check if there is no dangerous potential on inputs before any configuration.

Through the terminal, the user will be able to:

- visualize the measure,
- shift the measure,
- configurate the device.


WIRING AND OUTLINE DIMENSIONS:


In order to secure their technical features, we recommend a spacing of at least 5 mm between each one of our devices.
ㄹ 2 LOREME 12, rue des Potiers d'Etain - 57071 Metz 오 03.87.76.32.51 - Fax 03.87.76.32.52 - Email: Commercial@Loreme.fr - Technique@Loreme.fr

