Indicator / Controller for BCD inputs

95000LBCD

- ***Customizable BCD inputs***
  1 to 3 digits 1/2 unsigned
  1 to 3 digits signed
- ***Configurable input type***
  Active, voltage level, passive, dry contact
- ***95000LBCD/S***
  with analog output

95000L BCD is a numeric indicator allowing to display a BCD value composed of 1 to 3 digits 1/2 unsigned or 1 to 3 digits signed. The personalization of the indicator, number of digits, sign, and input process configuration, active (voltage level) or passive (dry contact), allow to meet appliance majority. More, a configurable analogical output adds to indicator an analogical/numerical converter function.

DESCRIPTION:

Input:
- Personalized input at the order:
  1 to 3 digits 1/2 unsigned,
  1 to 3 digits signed.
- configurable input type:
  active, voltage level, passive, dry contact.
- 4 inputs per digit,
- 1 input for 1/2 digit,
- 1 input for sign,
- 1 common ground

Display:
- 7 segments leds display,
- 3 digits 1/2 high resolution, 2000 pts,
- signalisation of input error value
- most significant digits at zero or non used display zero,
- last significant digits at zero display zero.

Output:
Device can dispose of an insulated analogical output fully configurable:
output type, current or voltage, output range, limitation.

Generator:
In option, on 95000L BCD/S version, device disposes of a generator set-point function reachable with his front face push buttons:
- "Auto / Manu" button allowing to access to generator or indicator mode,
- "Up" and "Down" button allowing to adjust set-point.

Characteristics:
- Standard power supply 230 Vac, other on request,
- standard numerical outputs RS232-C,
- connection with screw terminal,
- unplugged connector on BCD input,
- slot in box: 96 x 48 x 85

Security / Reliability:
The device has been designed in accordance with the problems met in industrial environments:
- galvanic isolation input/ output/ power supply
- saving of configuration parameters in EEPROM, data holding safety > 10 years
- noise immunity, input analysing
- watchdog monitoring the process program
- regeneration of internal parameters at each mesure.

Dialogue / Configuration:
The device can interact via the RS232 link with any system emulating a terminal. Example: HyperTerminal in Windows.
Transmission format, 9600 bauds, 1 start bit,8 data bits, 1 stop bit, parity none.
Through terminal, user will be able to:
- visualize the measures,
- configurate device:
  input process, input scale,
  output parameter.

Warning: RS232 link is not insulated from input measures. Check if there is no dangerous potential on inputs before any configuration.

Version and order code:

95000LBCD : BCD inputs, up to 3 digits 1/2 , signe, active or passive input

95000LBCD/S : BCD inputs, up to 3 digits 1/2 , signe, active or passive input, 1 configurable analog output

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

TECHNICAL SPECIFICATIONS

INPUT

Active input	Mini	Maxi
Logic 0	0V	2.5V
Logic 1	4.5V	35V
Input impedance		10Kohms
Passive input	switched voltage	5V
	drived current	0.15mA

ANALOG OUTPUT

Type	Range	Accuracy
Current	0... 4... 20mA	+/- 10µA
Load	750 Ohms at 20mA 1500 Ohms at 10mA	
Voltage	0... 5... 10V	+/- 5mV
External shunt	500 Ohms	
Response time	< 80ms	

POWER SUPPLY

Standard voltage	115 or 230Vac
or on request:	
universal voltage	80Vac / 265Vac 80Vdc / 300Vdc
or	
	20Vac / 60Vac 20Vdc / 80Vdc
Power	2VA

ENVIRONMENT

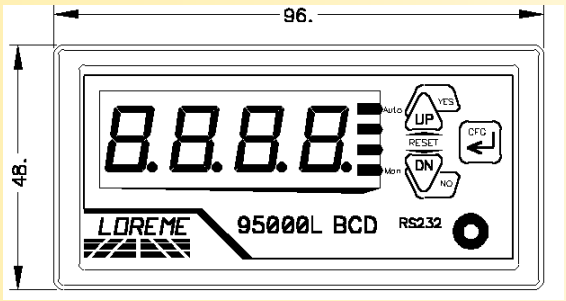
Operating temperature	-10….+60 °C
Storage temperature	-20….+85 °C
Humidity	85 % not condensed
Weight	~ 500 g
Protection	IP20, in option IP54, IP65
Dielectric strength	
Supply / input-output	1500Vrms continuously
Input / Output	1500Vrms continuously

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

Format: l x h x p 96 x 48 x 85
Cut-off: l x h 92 x 42



MOUNTING RECOMMENDATIONS