Miniature signal bar BARGRAPH meter (96x 24 mm)

BGL24
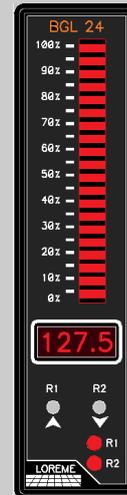
LOREME

- • **Process inputs:**   mA,V, Hz

- • **Display:**   20 leds column, 10 000 points display

- • **BGL24:**   bargraph with 4 digits display.

- • **BGL24/R:**   2 alarms relays option.

- • **BGL144L :**   low cost version, without 4 digits display.

The BGL24 is a configurable digital bargraph allowing, thanks to its 20 leds column and its 10000 points display, an easiness and accurate measure reading. By this two types of simultaneous visualization, device evaluate fastly and accurately the process state.

Inputs:

Input is configurable in:
- current (+/- 40 mA),
- voltage (+/- 20 V),
- sensor power supply,
- frequency (40 kHz max.).

Calculation functions :

- measure range conversion,
- automatic or manual positioning of decimal point.

Relays:

Device can dispose in option of 2 relays fully configurable in:
- measure range overflow detection, +/- 5 %,
- threshold detection:
    alarm direction,
    thresholds, hysteresis,
    delay, security.

Front face :

- visualization column with 20 leds segments,
- 10 000 points display high luminosity with leds,
  alphanumeric dot matrix display,
- indication of measure range overflow
- led of alarms state visualization,
- alarm thresholds adjustment by push buttons,
- possibility to lock threshold adjustment in configuration.

General characteristics:

- universal power supply, wide input range,
- configuration RS232 link for PC or Pocket,
- connection with screw-terminal,
- DIN panel case: 96 x 24.

- galvanic insulation power supply / inputs / relays,
- configuration saving in EEPROM, (safety > 10 years),
- noise immunity, measure filtering,
- watchdog supervising the program process,
- regeneration of internal parameters at each measure,
- stability towards ambient temperature variation.

CONFIGURATION:

The device can interact via its RS232 link with any terminal emulating system. Example: Windows HyperTerminal.
Free supply on single request of link cable.

Warning: RS232 link is not insulated from input.
Check if there is no dangerous potential on input before any configuration.
Through terminal, it will be possible to:
    visualize the measure,
    shift the measure,
    configurate device (input, range, relays...).

Version and order code :   **Request a quote** ✉

BGL24:   bargraph with display.
BGL24/R: bargraph with display, 2 alarms relays.

BGL24L: bargraph without 4 digits display.
BGL24L/R: bargraph without display, 2 alarms relays.

INPUT

TYPE	CALIBER	LIMITE (without guarantee)	ACCURACY
Voltage	+/- 10 V	+/- 20 V	+/- 10 mV
Currant	+/- 20 mA	+/- 40 mA	+/- 20 µA
Frequency	0.8 Hz / 40 kHz		+/- 0.3 %

Sampling rates
5 / s to V, mA
10 / s to F > to 10 Hz
1 / s to F < to 10 Hz

Input impedance
1 MOhms caliber 10 V
25 Ohms caliber 20 mA

AUXILIARY

Sensor power supply
22 V
(smoothed)

RELAYS

Insulated reverser contact   1500 Vac
Switch power   1 A / 250 Vac

POWER SUPPLY
(to specify at the order)

20 to 75 Vac / Vdc, 3 VA
80 to 265 Vac / Vdc, 3 VA
protection against reverse polarity

RECOMMENDED OPERATING CONDITIONS

Temperature
operating   -10 to +60 °C
storage   -20 to +85 °C
influence   0.02 % / °C
(% of full scale)

Relative humidity   85 % (not condensed)
Weight   ~ 300 g
Protection index   IP20, IP54 in option

Dielectric strength
input / pwr. supply / relay   1500 Veff continuous

Electromagnetic compatibility

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

CE

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:

Cut-off format: 21 x 92 mm