BARGRAPH PANEL METER single channel with 4 digits display (Naval - Group) *BGL136-NAV1*

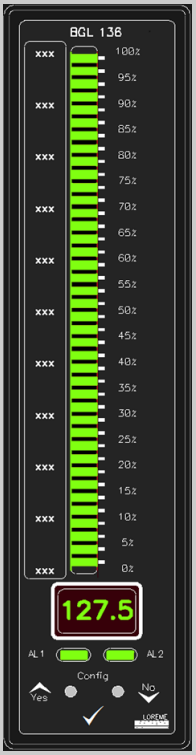
- ***Analog input***
  0..4...20mA, 0….10...20V (user configurable)

- ***Display:***
  40 segments LED bargraph, 10 000pts green LED display
  possibility to have more than one colour for the ramp

- ***BGL136-NAV1***
  Single LED bar with 4 digits display without relay

- ***BGL136-NAV1/R***
  Single LED bar with 4 digits display with relay

- ***DIN format***
  144 x 36 mm



The BGL136-NAV1 device is a numeric bar graph that allows with it's LED bar to quickly evaluate the measure order of input as well as it's variation. The digital display provide a more accurate reading of input.

DESCRIPTION:

Configurable input for DC voltage or current measurement.
- current 0..4...20 mA,
- voltage 0...10...20Vdc
(All input scales can be carried out in ranges limits)

Measures treatment:
- Physical unit range conversion,
- Square root extraction.
- Special linearization on 26 points maxi.

Front panel:

- 40 segment LED bar (2 display modes: bar or dot)
- Custom scale indication in front face
- 4 digits alphanumerical led display, 10000 pts
- Alarm status indication LED.

Relays:

1 or 2 relay outputs which can be used in alarm or regulation mode (loop breaking detection for input current)
Threshold, sense, hysteresis and delays (activation and deactivation) configurable for each relays.

Setting :

The unit is fully configurable via the front face or via the RS232 link with every terminal emulating system.
Example: HyperTerminal Windows.
The USB-RS232 cable is supply separately.
- Firmware update possible via the serial link

Features:

- DIN panel enclosure according to CEI 61554
  (144mm x 36mm x 85mm H x L x D without terminal blocks)
- fixing with lateral mounting clips
- wiring on pluggable spring terminal blocks (1mm² maxi) with lateral screwable flanges
- electronic protection with conformal coating
- protection rating
  IP55 for front panel (without front face buttons)
- galvanic isolation Input / power supply / relays
- not polarized universal AC-DC power supply
- storage of setup parameters in FLASH memory

Version and order code: Request a quote

BGL136-NAV1 Naval group version according to MAT652-0041-A

OPTION :
/R1: with option 1 relay
/R2: with option 2 relay

Connectors : pluggable spring terminal blocks

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

TECHNICAL SPECIFICATIONS

INPUT
(12 bits resolution)

TYPE	RANGE	ACCURACY
Voltage	0... 10 ... 20V	+/- 0.015V
Input impedance	>100 KOhms	
Current	0...4 ... 20mA	+/- 0.025 mA
Input impedance	166 Ohms	

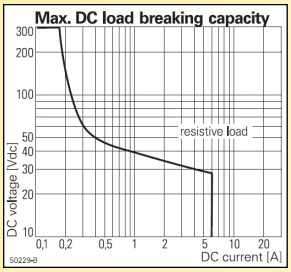
Response time: 100 ms (10 measures per seconds)

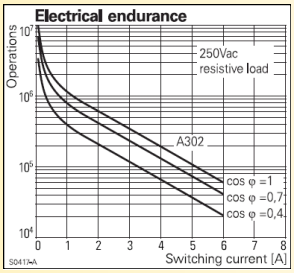
POWER SUPPLY (not polarized)

Standard: 20 to 265 Vac-dc, 2.5VA

RELAYS OUTPUT

Free potential, changeover contact	
impulse withstand voltage (1.2 / 50 µs)	6000V
AC switching capacity	440Vac / 6Aac, 1500VA
DC switching capacity	300Vdc / 0.15Adc
Minimal load recommended	100mA, 12V
Programmable response time	0.2 to 7200 sec





ENVIRONMENT

Operating temperature	-25 to +60 °C
Storage temperature	-25 to +85 °C
thermal Drift	0.015 % / °C (of full scale)
Humidity (conformal coating)	85 % (not condensed)
	10% ...100% in front panel
Weight	~ 250g
Protection (front face)	IP55 (without buttons)
Insulation resistance	> 100 Mohms at 50V
Dielectric strength	1500 Vrms 1 minute (inputs / supply / relays)
outline dimensions:	144x36mm, 150mm depth
MTBF (MIL HDBK 217F)	> 2 000 000 Hrs @ 25°C
MTTR (device replacement)	< 60 minutes
Life time	> 200 000 Hrs @ 30°C
Life time	> 80 000 Hrs @ 45°C
Necessary maintenance	none

ROHS and REACH compliant
Not sensitive to the position or inclination

Atmospheric pressure	700..1300mbar (200mbar/min strength)
Dry heat test at 55°C	16hrs operating
Moist heat 40°C / 85%RH	48hrs operating

Shocks test according to EN 60068-2-27 : ½ sinus , 15g , 11ms
Vibrations test according to EN 60068-2-6 : 2G, 0,1 to 50Hz , 3 axes

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

CE

WIRING AND OUTLINE DIMENSIONS:

Cut-off size : 32.5 x 138.5mm