

• **Analog input**

0..4...20mA, 0....10...20V (user configurable)

• **Display:**

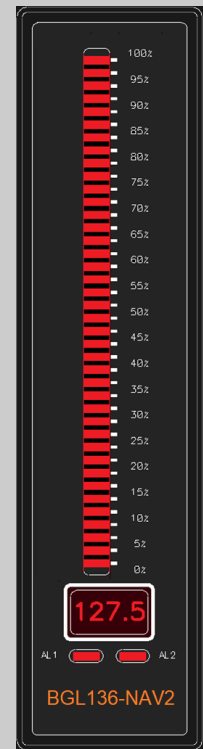
40 segments LED bargraph, 10 000pts red LED display
brightness adjustment by configuration

• **BGL136-NAV2**

Single LED bar with 4 digits display and 2 relays

• **DIN format**

144 x 36 mm, 90mm depth



The BGL136-NAV2 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:

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 80mm 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)
 - IP20 for rear face with protective cover
- galvanic isolation Input / power supply / relays
- not polarized DC power supply
- storage of setup parameters in FLASH memory

Version and order code:

[Request a quote](#)

BGL136-NAV2 Naval group version according to MAT652-5005-D
with 2 relays
with protective cover for rear face

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 mesures per seconds)	

POWER SUPPLY (not polarized)

Standard: 18Vdc to 30Vdc, 3VA

RELAYS OUTPUT

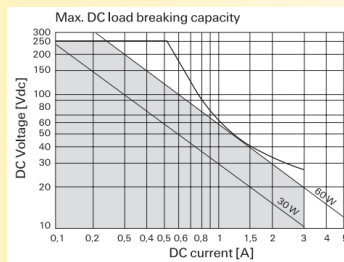
Free potential, changeover contact impulse withstand voltage (1.2 / 50 µs)	1500V
AC switching capacity	250 Vac / 3Aac, 750VA
DC switching capacity	220 Vdc / 3 Adc, 60W
Minimal load recommended	10mA, 20mV
Programmable response time	0.2 to 7200 sec

DURABILITY:

Electrical :
 230VAC/0.5A: 300 000 operations
 6VDC/0.1A: 2 000 000 operations
 30VDC/1A: 500 000 operations
 30VDC/2A: 100 000 operations

Mechanical:
 15 000 000 operations

Contact resistance: 100 mOhms



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)/ IP22 (rear cover)
Insulation resistance	> 100 Mohms @ 50V
Dielectric strength	1500 Vrms 1 minute (inputs / supply / relays)
Dielectric strength	1000 Vrms 1 minute (input / relays)
Outline dimensions:	144x36mm, depth <150mm
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
Damp heat 40°C / 85%RH	48hrs operating
Shocks test according to EN 60068-2-27 : ½ sinus , 50g , 8ms	
Vibrations test :	5Hz to 200Hz, 3 axes (200mg ...1000mg)

Electromagnetic compatibility 2014/30/UE / Low Voltage Directive 2014/35/UE

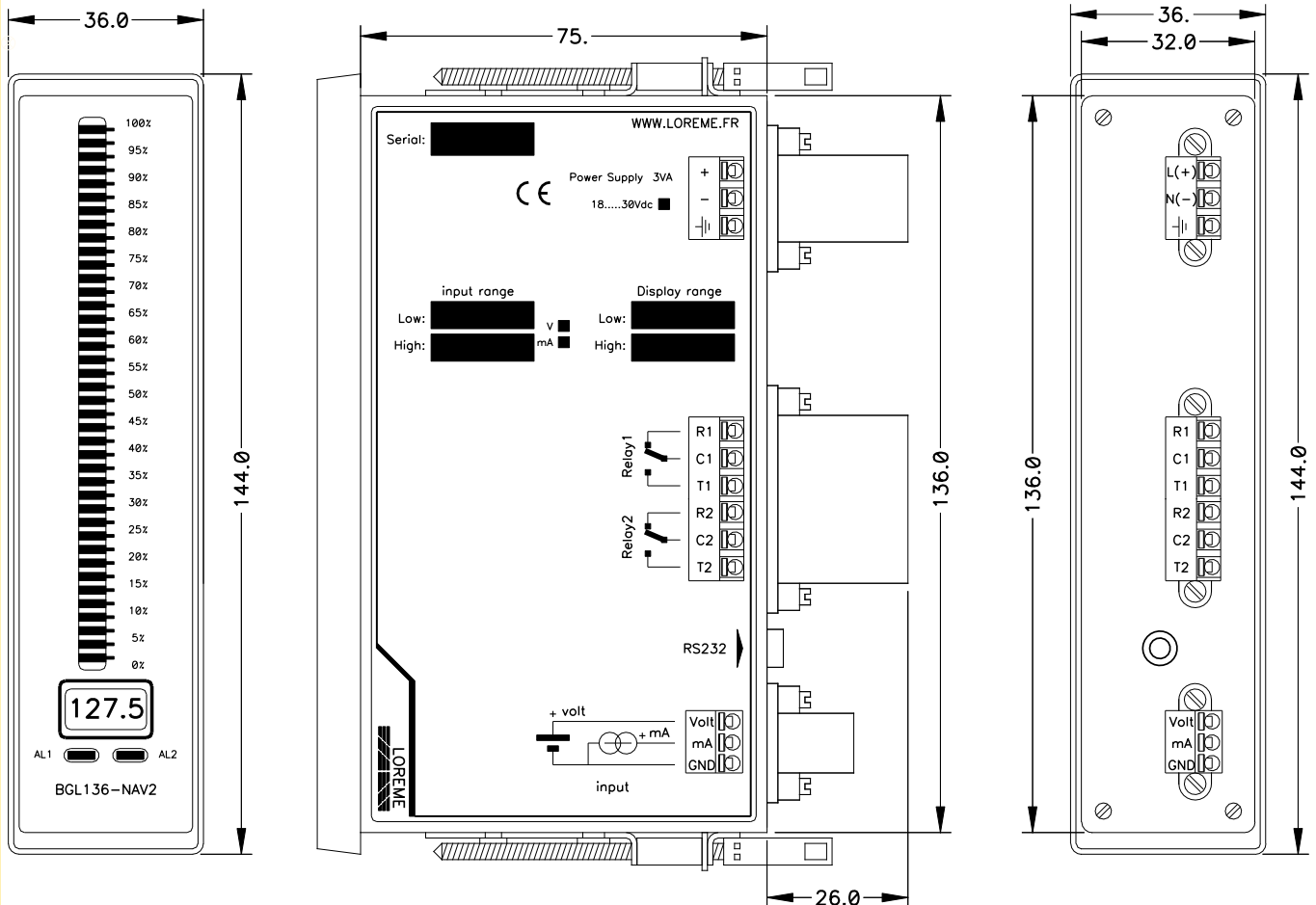
Immunity standard for industrial environments EN 61000-6-2		Emission standard for industrial environments EN 61000-6-4
EN 61000-4-2 ESD	EN 61000-4-8 AC MF	EN 55011 group 1 class A
EN 61000-4-3 RF	EN 61000-4-9 pulse MF	
EN 61000-4-4 EFT	EN 61000-4-11 AC dips	
EN 61000-4-5 CWG	EN 61000-4-12 ring wave	
EN 61000-4-6 RF	EN 61000-4-29 DC dips	



WIRING AND OUTLINE DIMENSIONS:

Cut-off size : 32.5 x 138.5mm

BGL136 rear face without IP22 cover



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

BGL136-NAV2 **LOREME**

IP22 protective cover for connectors

BGL136 side view with IP22 cover cross-section view

BGL136 rear view with IP22 cover

