

# WINOX-BGE

## GRAPHIC WEIGHBRIDGE INDICATOR

LAUMAS<sup>®</sup>  
ELETTRONICA



6 D-SUB connectors - IP40

MULTILINGUAGE  
 SOFTWARE



### DESCRIPTION

- AISI 304 stainless steel desk weight indicator (dimensions: 286x85x206 mm).
- Backlit LCD graphic display, resolution: 240x64 pixel, visible area: 133x39 mm.
- 52-key keyboard.
- IP40 protection rating.
- Real-time clock/calendar with buffer battery.
- Power supply included.
- Multilanguage software (4 languages + 1 customizable).
- D-SUB connectors.

### INPUTS/OUTPUTS AND COMMUNICATION

- 1 Ethernet TCP/IP port.
- 2 USB ports for connection to external keyboard, barcode reader or pendrive (included).
- 4 serial ports (2x RS485 and 2x RS232) for communication via protocols ModBus RTU, ASCII Laumas bidirectional or continuous one way transmission.
- 5 relay outputs controlled by the setpoint values or via protocols.
- 3 optoisolated PNP digital inputs: status reading via serial communication protocols.
- 1 load cell dedicated input.


### MAIN FUNCTIONS

- Connections to:
  - PC/PLC via RS485/RS232 (up to 99 instruments with line repeaters, up to 32 without line repeaters);
  - remote display and printer via RS485/RS232;
  - up to 8 load cells, 350 Ω, (or 16 load cells, 700 Ω) in parallel by junction box;
  - intelligent junction box or other multichannel instruments: allow the use of advanced functions as digital equalization, load distribution analysis and automatic diagnostics.
- Double weighing (entry and exit), single weighing (entry or exit), double weighing with trailer, single weighing with trailer, multiple weighing (weighing of multi-compartment trucks).
- Simultaneous management of 254 trucks.
- Open input weighings archive (max 254).
- Database with 500 vehicles (license plates, predetermined tare), products, customers and operators.
- Up to 10000 weighings that can be saved in alibi memory.
- Remote display with traffic light function managed via RS485/RS232.
- Traffic light management via relay outputs.
- Totals management (loaded and unloaded products).
- Barcode reader management with printing and open weighing ID recall.
- Data transfer to USB pendrive (included).
- Printing of displayed weight, open weighings, totals, and last weighing done.
- Customizable printouts (header and footer) via PC software.
- Digital filter to reduce the effects of weight oscillation.
- Theoretical calibration (via keyboard) and real calibration (with sample weights and the possibility of weight linearization up to 5 points).
- Tare weight zero setting.
- Automatic zero setting at power-on.
- Gross weight zero tracking.
- Semi-automatic tare (net/gross weight) and preset tare.
- Semi-automatic zero.
- Direct connection between RS485 and RS232 without converter.





Stabilized power supply included  
 24 VDC/1 A - 100÷240 VAC input  
 3 m cable length

### CERTIFICATIONS

 OIML R76:2006, class III, 3x10000 divisions, 0.2  $\mu$ V/VSI




#### CERTIFICATIONS ON REQUEST

 UL Recognized component - Complies with the United States and Canada standards

 Complies with the Eurasian Custom Union standards

 NMI Trade Approved - Complies with the Australian standards for legal use with third parties

### TECHNICAL FEATURES

Power supply and consumption	12÷24 VDC $\pm$ 10%; 6 W
Number of load cells • Load cells supply	up to 8 (350 $\Omega$ ) or 16 (700 $\Omega$ ) - 4/6 wires • 5 VDC/120 mA
Linearity	<0.01% full scale
Thermal drift	<0.0005% full scale/°C
A/D Converter	24 bit (16000000 points) - 4.8 kHz
Divisions (with measurement range $\pm$ 10 mV and sensitivity 2 mV/V)	$\pm$ 999999 • 0.01 $\mu$ V/d
Measurement range	$\pm$ 39 mV
Usable load cells sensitivity	$\pm$ 7 mV/V
Conversions per second	300/s
Display range	$\pm$ 999999
Decimals • Display increments	0÷4 • x1 x2 x5 x10 x20 x50 x100
Digital filter • Readings per second	10 levels • 5÷300 Hz
Relay outputs	5 - max 115 VAC/150 mA
Optoisolated digital inputs	3 - 5÷24 VDC PNP
Serial ports	2x RS485, 2x RS232
Baud rate	2400, 4800, 9600, 19200, 38400, 115200 (bit/s)
Humidity (condensate free)	85%
Storage temperature	-30°C +80°C
Working temperature	-20°C +60°C
 Relay outputs	5 - max 30 VAC, 60 VDC/150 mA
 Working temperature	-20°C +50°C
 Power supply device marked "LPS" (limited power source) or "Class 2"	

### METROLOGICAL SPECIFICATIONS OF TYPE-APPROVED INSTRUMENTS

Applied standards	2014/31/UE - EN45501:2015 - OIML R76:2006
Operation modes	single interval, multi-interval, multiple range
Accuracy class	III or IIII
Maximum number of scale verification divisions	10000 (class III); 1000 (class IIII)
Minimum input signal for scale verification division	0.2 $\mu$ V/VSI
Working temperature	-10°C +40°C

### OPTIONS ON REQUEST

	CODE
 Alibi memory.	OPZWALIBI

### INTELLIGENT JUNCTION BOXES



The weight indicator displays the intelligent junction box functions.

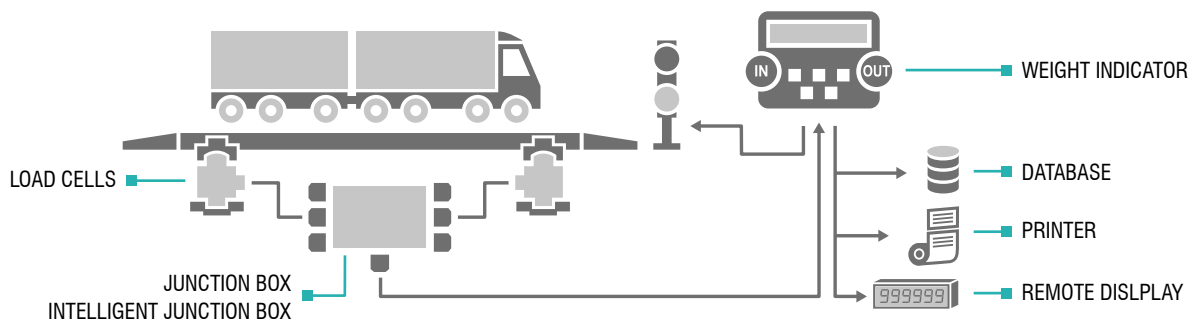
Example:

LOAD DISTRIBUTION ON THE 8 INDEPENDENT CHANNELS	
1C	9.7
2C	13.8
3C	14.9
4C	8.7
5C	20.3
6C	32.5
7C	Err
8C	OFF

Load percentage on each active channel

ERROR: connection problem

OFF: channel not active



### PRINTER

Supported external printers:  
Epson TM-U295  
Epson LX300  
Custom Kube II  
**Laumas STAVT II**  
*Other models on request.*

CUSTOMIZABLE PRINTOUT

### DATABASE

The trucks database allows to associate a vehicle (license plate and preset tare) to a customer identification code (ID) and to weighing data.

### REMOTE DISPLAY

Remote display with traffic light function managed via serial port.

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