WTAB-BGE

GRAPHIC WEIGHBRIDGE INDICATOR

LAUMAS® ELETTRONICA

CE · OIML · M · cULus · EAC · NMI TRADE APPROVED · RS485 RS232 · ETHERNET TCP/IP · RECHARGEABLE BATTERY · ALIBI · BARCODE SCAN · European Community Registered Design

Integrated thermal printer
(on request)

6 D-SUB connectors - IP40

MULTILANGUAGE
SOFTWARE

DESCRIPTION

- ABS desk weight indicator (dimensions: 315x315x170 mm).
- Backlit LCD graphic display, resolution: 240x64 pixel, visible area: 133x39 mm.
- 52-key membrane keyboard.
- IP40 protection rating.
- Real-time clock/calendar with buffer battery.
- Power supply included.
- Rechargeable battery (option on request).
- 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.

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

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.

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ISO 9001
ISO 14001

www.laumas.com

CERTIFICATIONS

OIML	OIML R76:2006, class III, 3x10000 divisions, 0.2 μV/VSI	

CERTIFICATIONS ON REQUEST

cULus	UL Recognized component - Complies with the United States and Canada standards
EAC	Complies with the Eurasian Custom Union standards
NMI TRADE APPROVED	NMI Trade Approved - Complies with the Australian standards for legal use with third parties

TECHNICAL FEATURES

Power supply and consumption	12÷24 VDC ±10%; 6 W
Number of load cells • Load cells supply	up to 8 (350 Ω) or 16 (700 Ω) - 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 ±10 mV and sensitivity 2 mV/V)	±999999 • 0.01 μV/d
Measurement range	±39 mV
Usable load cells sensitivity	±7 mV/V
Conversions per second	300/s
Display range	±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

cULus	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 μV/VSI
Working temperature	-10°C +40°C

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IP67   **SHOCK PROTECTION DEVICE**

■ INTELLIGENT JUNCTION BOXES

The weight indicator displays the intelligent junction box functions.

Example:

CLM4ABS / CLM8ABS

CLM8INOX

LOAD DISTRIBUTION ON THE 8 INDEPENDENT CHANNELS	
1C 9.7	
2C 13.8	
3C 14.9	Load percentage on each active channel
4C 8.7	
5C 20.3	
6C 32.5	
7C Err	ERROR: connection problem
8C OFF	OFF: channel not active

WEIGHT INDICATOR

LOAD CELLS

JUNCTION BOX
INTELLIGENT JUNCTION BOX

DATABASE

PRINTER

REMOTE DISLPLAY

■ PRINTER

RS232
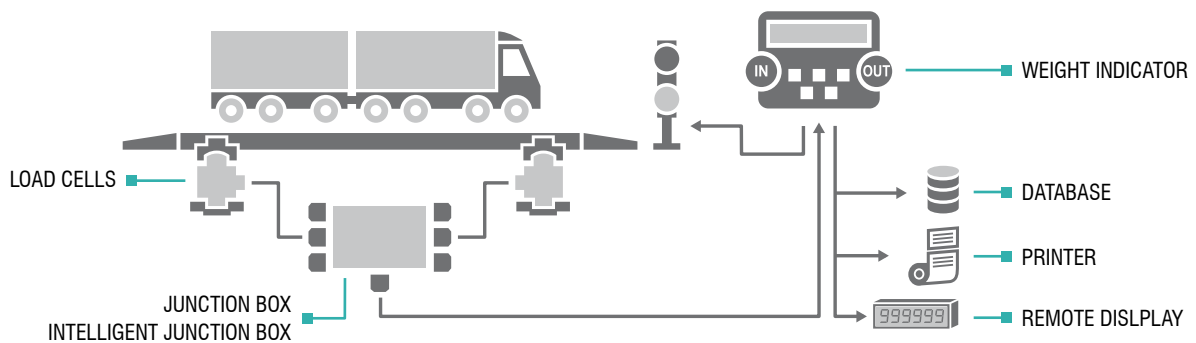
Supported external printers:
Epson TM-U295
Epson LX300
Custom Kube II
Laumas STAVT II
Other models on request.

Integrated thermal printer

CUSTOMIZABLE PRINTOUT

RS232

Printout example refers to the integrated printer.

CUSTOMIZABLE PRINT HEADER AND FOOTER

24/01/13   10:37:03
PRINTOUT NUMBER   21
                4
CODE   26000 kg

Epson name is the exclusive property of Seiko Epson Corporation; "Custom" name is the exclusive property of Custom Group SpA

■ DATABASE

DB

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

RS232/RS485

RIPLEDIP65

kg

Remote display with traffic light function managed via serial port.

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OPTIONS ON REQUEST

	DESCRIPTION	CODE
	12.2 V rechargeable lead battery, 2.2 Ah capacity, supplied already installed inside the battery compartment accessible from the outside. Operating time: 13 hours.	OPZWBATTWTAB
	Integrated thermal printer: 24 column, paper end sensor, working temperature: 0÷50 °C, humidity: 20%÷80%, paper roll included (width: 57 ±0.5 mm - outside diameter: 50 mm). ➡ *RS485 port not available.*	OPZWTABSTA
	Thermal paper roll. Length: 15 m.	CARTASTAVT
	Adhesive thermal paper roll. Length: 15 m.	CARTAFISCADE
	Alibi memory.	OPZWALIBI

The Company reserves the right to make changes to the technical data, drawings and images without notice.

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