LAUMAS® ELETTRONICA

Innovation in Weighing

ELECTRONIC INSTRUMENTATION

new

LOAD CELLS DIGITIZER *new*

WEIGHT TRANSMITTERS

WEIGHT INDICATORS

WEIGHBRIDGE INDICATORS

INTELLIGENT JUNCTION BOXES

WEB SERVER MASTER

Certifications

M

OIML

ATEX — IECEx

NTEP

cULus

NMI TRADE APPROVED

EAC

EAC Ex

EAC PAC

IP69K

"Made in Italy" Electronic Instruments for weighing and batching

LAUMAS produces Weight Indicators and Transmitters for PC/PLC connection to the most important international brands (Siemens, Rockwell Automation, Allen-Bradley, B&R Automation, Omron, Beckhoff, Schneider, Panasonic, Mitsubishi, Bosch Rexroth, Vipa, ABB, etc.) through the main fieldbuses on the market (Modbus RTU, Modbus TCP, PROFIBUS DP, PROFINET IO, Ethernet/IP, Ethernet TCP/IP, EtherCAT, POWERLINK, DeviceNet, CANopen, CC-Link, CC-Link IE, IO-Link, SERCOS III, etc.).

The wide range of products and components for industrial weighing systems is designed to be in compliance with the most relevant industry standards and is certified by the most established national and international bodies.

TLB Series

CE · OIML · M · NTEP · EAC · c UL us · ANALOG OUTPUT · RS485

MODBUS RTU

SPACE SAVING COMPACT DESIGN

- Weight transmitter/indicator with six-digit red LED display (8 mm height). Space saving compact design. Four buttons for the system calibration. Six signalling LEDs.
- Dimensions: 25x115x120 mm.
- RS485 port (Modbus RTU/Laumas ASCII protocol).
- 2 digital inputs, 3 relay outputs.
- Back panel mounting on Omega/DIN rail.

Certifications:
OIML R76:2006, class III, 3x10000 divisions, 0.2 μV/VSI.
OIML R61 - WELMEC Guide 8.8:2011 (M.I.D.).

On request:
UL Recognized component - United States and Canada.
NTEP - n_{max} 5000 - Class III - United States and Canada.
Complies with the Eurasian Custom Union standards (Russia, Belarus, Kazakhstan).
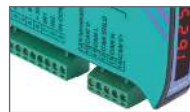
European Community registered design.

European Community Registered Design

TLB485
- Standard version.

TLB
- 16-bit analog output: 0/4-20 mA; 0-5/10 V; ±5/10 V.

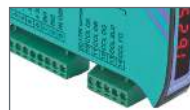ANALOG OUTPUT

TLB CANOPEN

CANopen

- The instrument works as *slave* in a synchronous CANopen network.

TLB DEVICENET

DeviceNet

- The instrument works as *slave* in a DeviceNet network.

TLB CC-LINK

CC-Link

- The instrument works as *Remote Device Station* in a CC-Link network and occupies 3 stations.

TLB PROFI

PROFIBUS

- The instrument works as *slave* in a Profibus-DP network.

TLB PROFINET IO

PROFINET · PI CERTIFIED

- The instrument works as *device* in a Profinet IO network.

TLB ETHERNET/IP

EtherNet/IP

- The instrument works as *adapter* in an Ethernet/IP network.

TLB MODBUS/TCP

MODBUS/TCP

- The instrument works as *slave* in a Modbus/TCP network.

TLB ETHERNET TCP/IP

ETHERNET TCP/IP

- The instrument works in an Ethernet TCP/IP network and it is accessible via web browser.

TLB ETHERCAT

EtherCAT

- The instrument works as *slave* in an EtherCAT network.

TLB POWERLINK

ETHERNET POWERLINK certified product

- The instrument works as *slave* in a Powerlink network.

TLB SERCOS III

SERCOS interface

- The instrument works as *slave* in a Sercos III network.

TLB4 Series

CE · OIML · M · EAC · NMI TRADE APPROVED · cULus · RS485

IoT · ALIBI · ANALOG OUTPUT

MODBUS RTU

- Weight transmitter with 4 independent reading channels with display of the total weight. Six-digit red LED display (8 mm height). Space saving compact design. Four buttons for the system calibration. Six signalling LEDs.
- Dimensions: 26x115x120 mm.
- RS485 serial port (Modbus RTU/Laumas ASCII protocol).
- 2 digital inputs, 3 relay outputs.
- Back panel mounting on Omega/DIN rail or front panel (except PROFIBUS DP version) with fixing kit included.
- Digital equalization: the instrument allows to equalize the connected load cells response, in a fast and reliable way over time.
- Automatic diagnostics: the instrument is designed to store the percentage value of load distribution for each channel.

Optional:
- Alibi memory.

Certifications:
OIML R76:2006, class III, 3x10000 divisions, 0.25 µV/VSI.
On request:
UL Recognized component - United States and Canada.
Complies with the Eurasian Custom Union standards (Russia, Belarus, Kazakhstan).
NMI Trade Approved - Complies with the Australian standards for legal use with third parties.

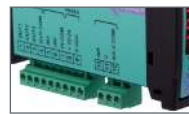*European Community registered design.*

FRONT PANEL MOUNTING

MOUNTING ON OMEGA / DIN RAIL

TLB4 RS485
- Standard version.

TLB4
- 16-bit analog output: 0/4-20 mA; 0-5/10 V; ±5/10 V.

TLB4 CANOPEN
- The instrument works as *slave* in a synchronous CANopen network.

TLB4 DEVICENET
- The instrument works as *slave* in a DeviceNet network.

TLB4 CC-LINK
- The instrument works as *Remote Device Station* in a CC-Link network and occupies 3 stations.

TLB4 PROFI
- The instrument works as *slave* in a Profibus-DP network.

TLB4 PROFINET IO
- The instrument works as *device* in a Profinet IO network.

TLB4 ETHERNET/IP
- The instrument works as *adapter* in an Ethernet/IP network.

TLB4 MODBUS/TCP
- The instrument works as *slave* in a Modbus/TCP network.

TLB4 ETHERNET TCP/IP
- The instrument works in an Ethernet TCP/IP network and it is accessible via web browser.

TLB4 ETHERCAT
- The instrument works as *slave* in an EtherCAT network.

TLB4 POWERLINK
- The instrument works as *slave* in a Powerlink network.

TLB4 SERCOS III
- The instrument works as *slave* in a Sercos III network.

TLM8 Series
WEIGHT TRANSMITTERS - 8 INDEPENDENT READING CHANNELS

MODBUS RTU

IP67 polycarbonate box version with transparent cover.
Dimensions: 188x188x130 mm;
8+3 cable glands-plugs.

Version with 8+3 PVC end fittings.

- Weight transmitter/indicator with backlit graphic LCD display, transmissive STN, white on blue, 128x64 pixel resolution, 60x32 mm visible area. Five-key keypad for the system calibration.
- Dimensions: 148x92x60 mm.
- 16-bit analog output: 0/4-20 mA; 0-5/10 V.
- RS485 port (Modbus RTU/Laumas ASCII protocol).
- 3 digital inputs, 5 relay outputs.
- Omega/DIN rail mounting suitable for back panel or junction box.
- Weighing system with 8 independent reading channels for load cells.
- RS485 (Modbus RTU)/fieldbus transmission of the divisions for the 8 independent reading channels.
- Digital equalization of the 8 channels.
- Detailed diagnostics of the 8 channels.
- Load distribution synoptic analysis on 8 channels with backups archive: storing, retrieving, printing.
- Load distribution automatic monitoring on 8 channels.
- Significant events archive (zeroing, calibration, equalization, alarms): storing, retrieving, printing.
- TEST key for direct access to the diagnostic functions.

Optional:
- Additional RS485 port.
- Alibi memory.
- IP67 box version.

Certifications:
   OIML R76:2006, class III, 3x10000 divisions, 0.2 µV/VSI.
On request:
   UL Recognized component - United States and Canada.
   Complies with the Eurasian Custom Union standards (Russia, Belarus, Kazakhstan).

TLM8
- Standard version.

TLM8 CANOPEN
- The instrument works as *slave* in a synchronous CANopen network.

TLM8 DEVICENET
- The instrument works as *slave* in a DeviceNet network.

TLM8 CC-LINK
- The instrument works as *Remote Device Station* in a CC-Link network and occupies 3 stations.

TLM8 PROFIBUS
- The instrument works as *slave* in a Profibus-DP network.

TLM8 PROFINET IO
- The instrument works as *device* in a Profinet IO network.

TLM8 ETHERNET/IP
- The instrument works as *adapter* in an Ethernet/IP network.

TLM8 MODBUS/TCP
- The instrument works as *slave* in a Modbus/TCP network.

TLM8 ETHERNET TCP/IP
- The instrument works in an Ethernet TCP/IP network and it is accessible via web browser.

TLM8 ETHERCAT
- The instrument works as *slave* in an EtherCAT network.

TLM8 POWERLINK
- The instrument works as *slave* in a Powerlink network.

TLM8 SERCOS III
- The instrument works as *slave* in a Sercos III network.

CLM8 Series

- Intelligent junction box with backlit alphanumeric LCD display, 38x16 mm visible area, two-line by eight-digit (5 mm height). Four-key keypad for the system calibration.
- RS232 and RS485 port (Modbus RTU/Laumas ASCII protocol).
- Detailed diagnostics of each load cell (max 8).
- Instant anomalies report (also on the connected indicator display).
- Digital equalization of the 8 channels.
- Load distribution analysis on 8 channels with backups archive: storing, retrieving, printing
- Load distribution automatic monitoring on 8 channels.
- Significant events archive (zeroing, calibration, equalization, alarms): storing, retrieving, printing.
- Lightning and electrical shock protection device.
- **New:**
  Tilt compensation of the load receptor up to 10° via external incline sensor; also suitable for legal for trade use and on board weighing systems.

Optional:
- Alibi memory.
- Ethernet TCP/IP port for remote management (connectable to your PC, smartphone, tablet, etc. via web).

Certifications:
  OIML R76:2006, class III, 3x10000 divisions, 0.4 μV/VSI.

On request:
  UL Recognized component - United States and Canada.
  Complies with the Eurasian Custom Union standards (Russia, Belarus, Kazakhstan).

CLM8
- Omega/DIN rail mounting version suitable for back panel or junction box.
- Dimensions: 125x92x52 mm
- 8 channels.

CLM8I
- Naked version, board only.
- Dimensions: 151x72x30 mm.
- 8 channels.

EXAMPLE OF WEIGHBRIDGE APPLICATION

W serie*

CLM8

WEIGHBRIDGE DIRECT CONTROL
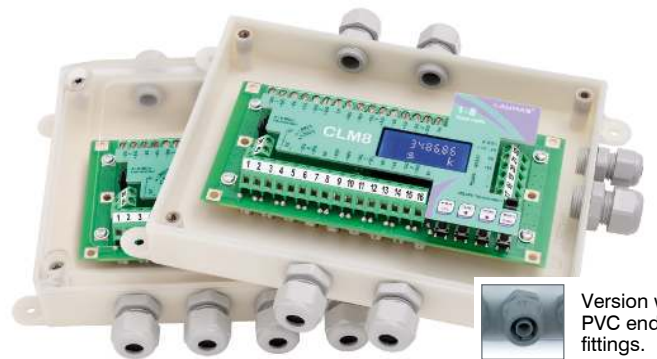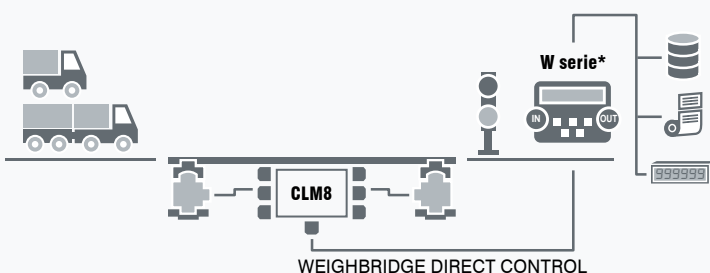
**graphic display indicators excluded*

CLM8INOX
- IP67 AISI 304 stainless steel version.
- Dimensions 200x148x45 mm.
- 8 channels, 8+2 cable glands-plugs.

CLM4ABS-R / CLM8ABS-R
- IP67 ABS version with transparent cover.
- Dimensions 210x130x40 mm.
- 8/4 channels, 8/4+2 cable glands-plugs.
- 8/4 channels, 8/4+2 PVC end fittings.

Version with PVC end fittings.

CASTL/-8/-PG9/-GUA
- IP67 polycarbonate boxes with transparent cover.
- Dimensions 170x140x95 mm.
- 8/4 channels, 8/4+2 cable glands-plugs.
- 8/4 channels, 8/4+2 PVC end fittings.

Version with PVC end fittings.

LCB

CE EHC c(UL)us RS485 ANALOG OUTPUT IP67

COMING SOON
OIML M ALIBI

IoT

- Weight transmitter that transforms an analog load cell into a digital one. IP67 AISI316 stainless steel box. Status LED of the communication interface. Configuration software.
- Dimensions: 97x38x82 mm (including flying connectors).
- 3x IP67 M12 connectors.
- 1 micro USB port.
- 2 digital inputs, 3 relay outputs.
- Mounting: wired or integral to the load cell body via standard ¼ GAS fitting (specific adapters for different threads are supplied on request).
- Single product loading batching.

Optional:
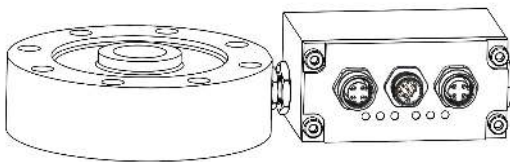- Load cell + LCB wiring.
- Alibi memory.

Certifications:
OIML R76:2006, class III, 3x10000 divisions.
On request:
UL Recognized component - United States and Canada.
Complies with the Eurasian Custom Union standards (Russia, Belarus, Kazakhstan).

MICRO USB FOR PC CONFIGURATION

LCB WITH FLYING CONNECTORS

PC CONFIGURATION SOFTWARE

LCB + RS485

RS485

- RS485 serial port (Modbus RTU/Laumas ASCII protocol).

LCB + ANALOG OUTPUT

ANALOG OUTPUT

- 16-bit analog output:
0/4-20 mA; 0-5/10 V.

LCB IO-LINK

IO-Link

- The instrument works as device in a IO-Link network.

LCB CANOPEN

CANopen

- The instrument works as *slave* in a synchronous CANopen network.

LCB CC-LINK IE

CC-Link IE

- The instrument works as slave in a CC-Link IE network

LCB CC-LINK

CC-Link

- The instrument works as *Remote Device Station* in a CC-Link network and occupies 3 stations.

LCB PROFIBUS

PROFIBUS

- The instrument works as *slave* in a Profibus-DP network.

LCB MODBUS/TCP

MODBUS/TCP

- The instrument works as *slave* in a Modbus/TCP network.

LCB ETHERNET TCP/IP

ETHERNET TCP/IP

- The instrument works in an Ethernet TCP/IP network and it is accessible via web browser.

LCB ETHERNET/IP

EtherNet/IP

- The instrument works as *adapter* in an Ethernet/IP network.

LCB PROFINET IO

PROFINET

- The instrument works as *device* in a Profinet IO network.

LCB ETHERCAT

EtherCAT

- The instrument works as *slave* in an EtherCAT network.

LCB POWERLINK

ETHERNET POWERLINK certified product

- The instrument works as *slave* in a Powerlink network.

LCB SERCOS III

SERCOS interface

- The instrument works as *slave* in a Sercos III network.

TLKWF

- WiFi weight transmitter in IP65 box with 3 PG9 cable glands. Backlit alphanumeric LCD display. Four buttons for the system calibration. Six signalling LEDs.
- Dimensions: 170x80x65 mm.
- WiFi module for wireless connection via integrated web server or via ModBus RTU, ASCII Laumas protocols.
- RS485 and RS232 serial ports (Modbus RTU/Laumas ASCII protocol).
- 2 digital inputs, 4 relay outputs.
- Connections to:
  - PC via WiFi/virtual Ethernet port
  - PC/PLC via RS485/RS232 (up to 99 instruments with line repeaters, up to 32 without line repeaters).
  - others TLKWF devices and W series Laumas instruments with OPZW1RADIO optional module via WiFi.
  - PC / smartphone / tablet via web browser (point-to-point direct connection).
  - max. 8 load cells in parallel.

Optional:
- IP67 waterproof box.
- Rechargeable external lead battery.
- Rechargeable internal NiMH battery.

Certifications:
  OIML R76:2006, class III, 3x10000 divisions, 0.6 μV/VSI.
On request
  UL Recognized component - United States and Canada.
  Complies with the Eurasian Custom Union standards (Russia, Belarus, Kazakhstan).

MODBUS RTU

WIFI WEB SERVER & SITE Integrated web site in combination with WiFi connection for supervision, management and remote control of the weight transmitter. The web site is displayed on PC, smatphone and tablet with standard browsers (Explorer, Safari, Chrome, etc).

OPTIONS ON REQUEST

DESCRIPTION

IP67 polycarbonate waterproof box

- 2 PG9 cable glands.
- Extractable power connector.

Rechargeable external lead battery

- 12 V - 2200 mAh capacity.
- IP67 polycarbonate waterproof box with transparent cover.
- Battery charger.

Rechargeable internal NiMH battery

- 8 elements - 1.2 V - AA type - 2450 mAh capacity.
- Supplied already installed in the instrument with external dedicated switch.

TLS Series

- Weight transmitter/indicator with six-digit red LED display (8 mm height). Four-key keypad for the system calibration. Six signalling LEDs.
- Dimensions: 123x92x50 mm.
- RS485 port (Modbus RTU/Laumas ASCII protocol).
- 2 digital inputs, 2 optorelays outputs.
- Omega/DIN rail mounting suitable for back panel or junction box.

Optional:
- Box versions: IP67, IP67 ATEX II 3GD.

Certifications on request:
  UL Recognized component - United States and Canada.
  Complies with the Eurasian Custom Union standards (Russia, Belarus, Kazakhstan).

TLS

- 16-bit analog output: 0/4-20 mA; 0-5/10 V; ±5/10 V.
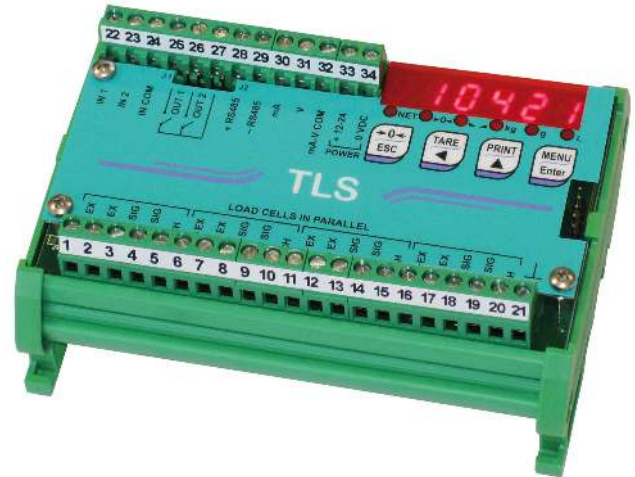
TLS485

- Standard version.
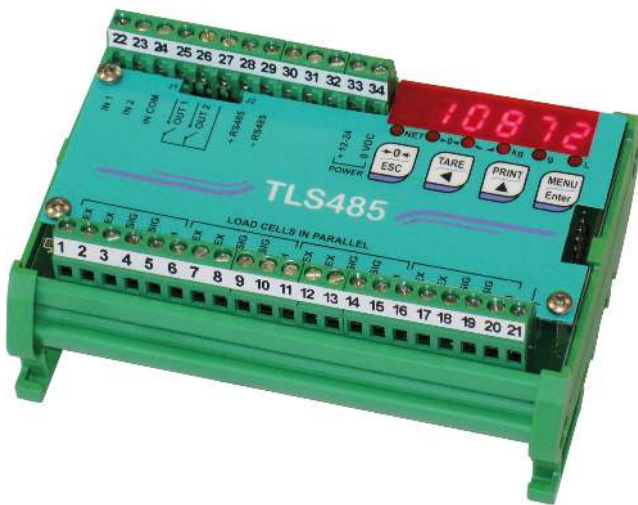
IP67 VERSION   IP67 VERSION WITH KEYPAD   IP67 ATEX II 3GD VERSION

THFPROFI

- Weight transmitter/indicator with six-digit red LED display (11 mm height). Four-key keypad for the system calibration. Six signalling LEDs.
- Dimensions: 148x92x50 mm.
- Slave PROFIBUS DP port (max 32 instruments without line repeaters; max 126 instruments with line repeaters).
- RS485 port (Modbus RTU/Laumas ASCII protocol).
- 1 digital input, 1 relay output.
- Omega/DIN rail mounting suitable for back panel or junction box.

Optional:
- Box versions: IP67, IP67 ATEX II 3GD.

Certifications:
  OIML R76:2006, class III, 10000 divisions 0.2 μV/VSI.
  OIML R61 - WELMEC Guide 8.8:2011 (M.I.D.).
On request:
 UL Recognized component - United States and Canada.
  Complies with the Eurasian Custom Union standards (Russia, Belarus, Kazakhstan).

IP67 VERSION   IP67 VERSION WITH KEYPAD   IP67 ATEX II 3GD VERSION

TLE

- Weight transmitter with backlit alphanumeric LCD display, 38x16 mm visible area, two-line by eight-digit (5 mm height).
- Dimensions: 90x95x60 mm.
- 16-bit analog output: 0/4-20 mA; 0-5/10 V; ±5/10 V.
- RS485 port (Modbus RTU).
- Simple zero setting and full scale through digital rotary control (Encoder).
- Omega/DIN rail mounting suitable for back panel or junction box.
- The display visualizes the input's mV value and the analog output value in V or mA.

Optional:
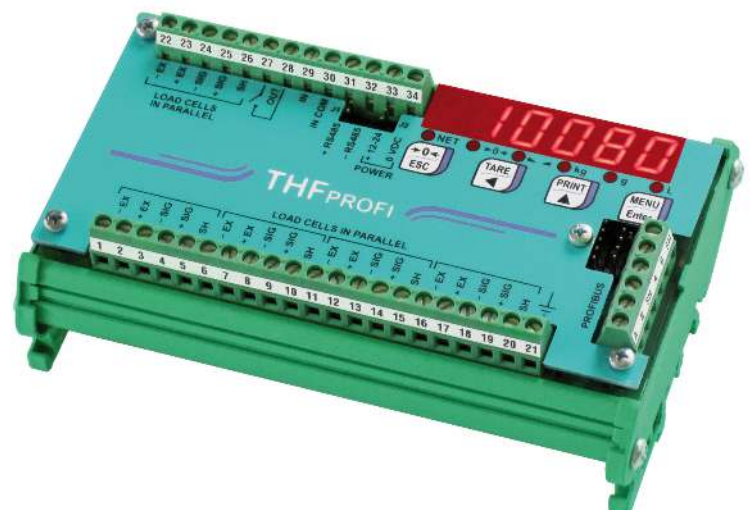- Box versions: IP67, IP67 ATEX II 3GD.

Certifications on request:
UL Recognized component - United States and Canada.
Complies with the Eurasian Custom Union standards (Russia, Belarus, Kazakhstan).

MODBUS RTU

IP67 VERSION

IP67 ATEX II 3GD VERSION

TLL - TLU

- Weight transmitter/indicator with six-digit red LED display (8 mm height). Four-key keypad for the system calibration. Six signalling LEDs.
- Dimensions: 123x92x50 mm.
- RS232 and RS485 port (Modbus RTU/Laumas ASCII protocol).
- 2 digital inputs, 4 relay outputs.
- Omega/DIN rail mounting suitable for back panel or junction box.

Optional:
- Box versions: IP67, IP67 ATEX II 3GD.
- 16-bit analog output: 0/4-20 mA; 0-5/10 V; ±5/10 V.

Certifications on request:
UL Recognized component - United States and Canada.
Complies with the Eurasian Custom Union standards (Russia, Belarus, Kazakhstan).

MODBUS RTU

TLL
WEIGHT TRANSMITTER

- Synchronous weight transmission for PLCs without serial port.
- It takes two digital outputs and a digital input of the PLC.

TLU
LOAD LIMITING DEVICE / INDICATOR

- Suitable for lifting systems.
- Load cells connections continuous check.
- Three alarm thresholds normally closed and one SPDT contact (Single Pole Double Throw).
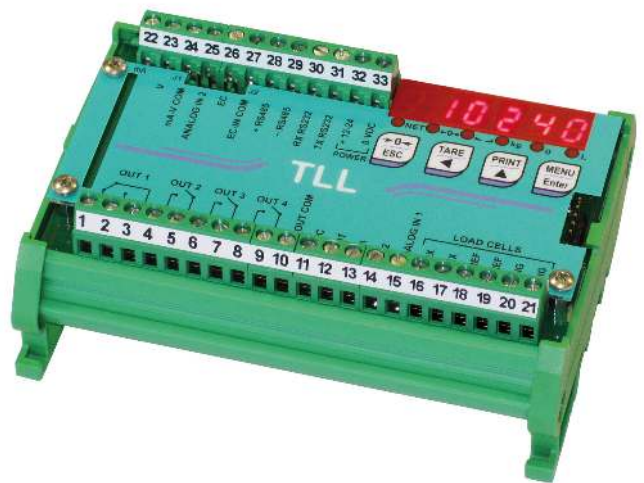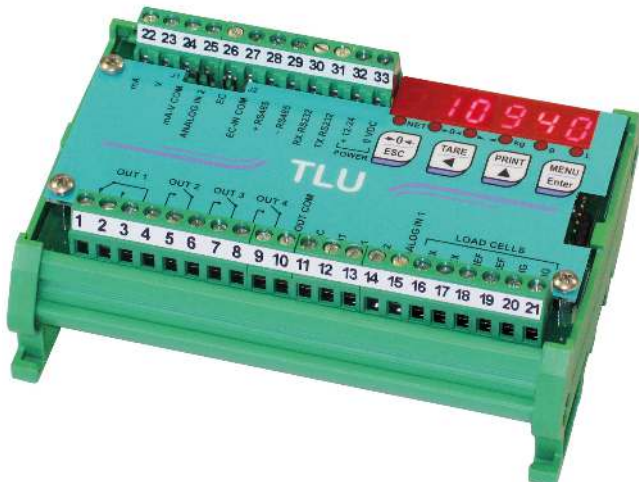
IP67 VERSION   IP67 VERSION WITH KEYPAD   IP67 ATEX II 3GD VERSION
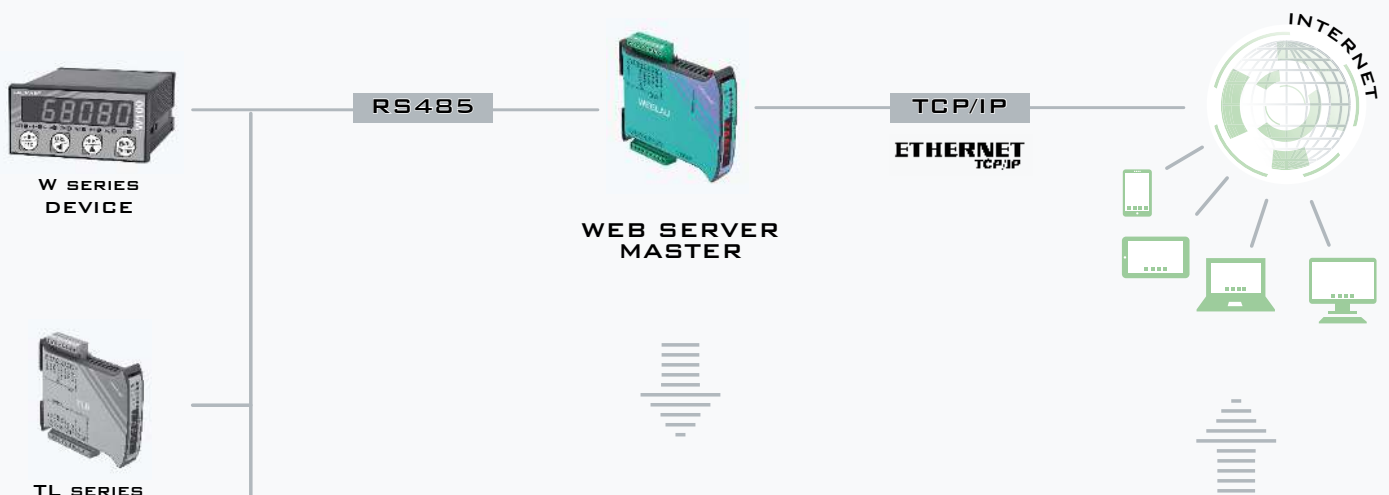
WEBLAU

for W and TLB series instruments

max 8 instruments via RS485

The **WEBLAU** device is a useful support for all installers/dealers of Laumas weighing instruments as **it makes easier the remote maintenance**, allowing to control wherever, the status of the instruments connected to RS485 including the possible anomalies.

- Web server master with six-digit red LED display (8 mm height). Space saving compact design. Four buttons.
- Dimensions: 25x115x120 mm.
- Ideal for supervision, management and remote control of the W series weight indicators and TLB series weight transmitters (max 8 instruments).
- RS485 port (Modbus RTU).
- Ethernet TCP/IP port for remote management (connectable to your PC, smartphone, tablet, etc. via web).
- Back panel mounting on Omega/DIN rail.

OPERATING DIAGRAM

W series device

RS485

TL series device

WEB SERVER MASTER

TCP/IP

ETHERNET TCP/IP

INTERNET

TL series device

INTEGRATED SOFTWARE FOR REMOTE MANAGEMENT

LAUMAS ELETTRONICA — INNOVATION IN WEIGHING

Status | Settings | Support   [Refresh] [Logout]

DEV 2   2   ErCell ErAD > 9 div > 110% GrOver NetOver Net Stab ZERO

Gross weight   **130 kg**

| Input | | | |
| Output | | | | |

Net weight   **124 kg**

SetPoint 1   100 kg
SetPoint 2   121 kg
SetPoint 3   200 kg
SetPoint 4   300 kg
SetPoint 5   10000 kg

| Semiautomatic tare | Semiautomatic zero | Gross display | E2PROM Save |
| Keypad lock | Keypad/Display lock | Keypad/Display unlock | Reset |

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ETHERNET TCP/IP PORT FOR REMOTE MANAGEMENT VIA INTERNET BY PC, SMARTPHONE OR TABLET

Main functions:
- Net weight, gross weight and alarms displaying.
- Setpoint setting.
- Inputs/outputs check and management.

W100
WEIGHT INDICATOR

- Weight indicator in DIN case, dimensions 48x96x130 mm. IP54 front panel protection (IP65 optional). Four-key membrane keyboard. Eight signalling LEDs.
- Panel mounting.
- Six-digit red LED display (14 mm height).
- RS232 and RS485 ports (Modbus RTU/Laumas ASCII protocol).
- 3 digital inputs, 5 relay outputs.

Optional:
- 16-bit analog output: 0/4-20 mA; 0-5/10 V; ±5/10 V.
- Alibi memory.
- Additional RS485 port.

Certifications:
  OIML R76:2006, class III, 3x10000 divisions, 0.2 μV/VSI.
  OIML R61 - WELMEC Guide 8.8:2011 (M.I.D.).
On request:
  UL Recognized component - United States and Canada.
  NMI Trade Approved - Complies with the Australian standards for legal use with third parties.
  Complies with the Eurasian Custom Union standards (Russia, Belarus, Kazakhstan).
  Pattern Approval Certificate of measuring instruments (Russia, Belarus, Kazakhstan).

METRIC LABEL SUPPORT 124x77x1.5 mm

WLIGHT
WEIGHT INDICATOR

- Weight indicator in ABS, dimensions: 120x200x280 mm. Five-key membrane keyboard. Eight signalling LEDs.
- Possible installations: wall, column, desk.
- Six-digit red LED display (20 mm height).
- RS232 serial port (Modbus RTU/Laumas ASCII protocol).

Optional:
- Alibi memory.
- Power supply with eight rechargeable batteries type AA 1.2 V.

Certifications:
  OIML R76:2006, class III, 3x10000 divisions, 0.2 μV/VSI.
  OIML R61 - WELMEC Guide 8.8:2011 (M.I.D.).
On request:
  UL Recognized component - United States and Canada.
  Complies with the Eurasian Custom Union standards (Russia, Belarus, Kazakhstan).

COMING SOON

WDOS
WEIGHING AND BATCHING
WEIGHT INDICATOR

- Weight indicator in DIN case, dimensions 96x96x130 mm. IP54 front panel protection (IP65 optional). Ten-key membrane keyboard. Eight signalling LEDs.
- Panel mounting.
- Multiprogram: single loading/unloading and multi-product batchings, 99 formulas.
- Backlit graphic LCD display, 60x32 mm, 128x64 pixel.
- Six-digit red LED display (10 mm height).
- RS232 and RS485 ports (Modbus RTU/Laumas ASCII protocol).
- 3 digital inputs, 5 relay outputs.

Optional:
- Data storage on USB pen drive.
- 16-bit analog output: 0/4-20 mA; 0-5/10 V; ±5/10 V.
- Alibi memory.
- Additional RS485 port.
- Fieldbuses: Profibus DP, DeviceNet, CANopen, Profinet IO, Modbus/TCP, Ethernet/IP, Ethernet TCP/IP for remote management (connectable to your PC, smartphone, tablet, etc. via web).

Certifications:
  OIML R76:2006, class III, 3x10000 divisions, 0.2 μV/VSI.
  OIML R61 - WELMEC Guide 8.8:2011 (M.I.D.).
On request:
  UL Recognized component - United States and Canada.
  NMI Trade Approved - Complies with the Australian standards for legal use with third parties.
  Complies with the Eurasian Custom Union standards (Russia, Belarus, Kazakhstan).
  Pattern Approval Certificate of measuring instruments (Russia, Belarus, Kazakhstan).

MULTILANGUAGE SOFTWARE

ETHERNET PORT

USB PORTS

W200 Series

- Weight indicator in DIN case, dimensions 96x96x130 mm. IP54 front panel protection (IP65 optional). Five-key membrane keyboard. Eight signalling LEDs.
- Possible installations: panel, wall (W200BOX-EC)
- Multiprogram: single loading/unloading and multi-product batchings, max 99 formulas.
- Six-digit red LED display (14 mm height).
- RS232 and RS485 ports (Modbus RTU/Laumas ASCII protocol).
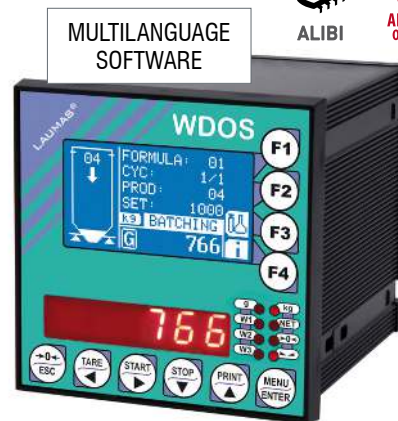- 3 digital inputs, 5 relay outputs.

Optional:
- Data storage on USB pen drive.
- 16-bit analog output: 0/4-20 mA; 0-5/10 V; ±5/10 V.
- Alibi memory.
- Additional RS485 port.
- Fieldbuses: Profibus DP, DeviceNet, CANopen, Profinet IO, Modbus/TCP, Ethernet/IP, Ethernet TCP/IP for remote management (connectable to your PC, smartphone, tablet, etc. via web).

Certifications:
OIML R76:2006, class III, 3x10000 divisions, 0.2 μV/VSI.
OIML R61 - WELMEC Guide 8.8:2011 (M.I.D.).

On request:
UL Recognized component - United States and Canada.
NMI Trade Approved - Complies with the Australian standards for legal use with third parties.
Complies with the Eurasian Custom Union standards (Russia, Belarus, Kazakhstan).
Pattern Approval Certificate of measuring instruments (Russia, Belarus, Kazakhstan).

ETHERNET PORT   USB PORTS

MODBUS RTU
PROFIBUS
DeviceNet
CANopen
PROFINET   PI
MODBUS TCP
EtherNet/IP
ETHERNET TCP/IP

ALIBI   ANALOG OUTPUT   RS485   RS232

W200 series weight indicator into IP67/IP64 box

- Polycarbonate box, dimensions 170x140x95 mm, four fixing holes Ø4 mm, 6 PG9 cable glands. Five-key membrane keyboard. Eight signalling LEDs.
- Wall mounting.

IP64

W200BOXEC
External switch for formula selection (EC option), Sart and Stop buttons.

W200BOX

IP67

ATEX II 3GD VERSION WITH 6 CABLE GLANDS

VERSION WITH 6 PVC END FITTINGS

W200 series weight indicator into explosion proof box

The system is composed of:
- Explosion proof box, ATEX II 2(1) GD approved, provided with heat-resistant transparent tempered glass window and 5 external buttons which performs the same functions as W200 keyboard.
- W200 series weight indicator.
- Passive fail-safe Zener barriers, ATEX II (1) GD approved.

ADPEW200

PROG-DB

SOFTWARE FOR DATA STORAGE ON PC

The software enables managing via PC any data (performed weighings, batching data, alarms) coming from the following weight indicators series: W200, WDOS, WDESK, WINOX, WTAB.

The stored data can be consulted, printed out, used to carry out searches and exported in CSV.

USB KEY INCLUDED

Multilanguage software included in the supply of OPZWDATIPC and OPZWUSB options.

Data transfer from the instrument to the PC can take place in two ways:
- via USB key (OPZWUSB option).
- in serial mode (OPZWDATIPC option): RS232 or RS485 via converter.

WDESK Series

WEIGHING AND BATCHING

WEIGHT INDICATORS

CE · OIML · M · cULus · NMI TRADE APPROVED · EAC · EAC PAC

MODBUS RTU · PROFIBUS · DeviceNet · CANopen · PROFINET · PI CERTIFIED · MODBUS/TCP · EtherNet/IP · ETHERNET TCP/IP

WiFi · BARCODE SCAN · IP67 · ALIBI · ANALOG OUTPUT · RS485 · RS232

MULTILANGUAGE SOFTWARE

WDESK-G

- Backlit graphic LCD display, 133x39 mm, 240x64 pixel.
- 21-key membrane keyboard.
- Statistical checking of prepackages.

Optional:
- Barcode reader and PC keyboard management via USB.

- Weight indicator in ABS, dimensions 122x226x164 mm. IP67 protection rating.
- Different versions for various types of electrical connections: cable glands, D-SUB connectors, removable terminal.
- Possible installations: wall, panel, column, desk.
- Multiprogram: single loading/unloading and multi-product batchings, 99 formulas.
- RS232 and RS485 ports (Modbus RTU/Laumas ASCII protocol).
- 3 digital inputs, 5 relay outputs.

Optional:
- Weight radio transmission (Wi-Fi).
- Data storage on USB pen drive.
- 16-bit analog output: 0/4-20 mA; 0-5/10 V; ±5/10 V.
- Alibi memory.
- Additional RS485 port.
- Eight rechargeable batteries type AA 1.2 V.
- Fieldbuses: Profibus DP, DeviceNet, CANopen, Profinet IO, Modbus/TCP, Ethernet/IP, Ethernet TCP/IP for remote management (connectable to your PC, smartphone, tablet, etc. via web).

Certifications:
   OIML R76:2006, class III, 3x10000 divisions, 0.2 μV/VSI.
   OIML R61 - WELMEC Guide 8.8:2011 (M.I.D.).
On request:
   UL Recognized component - United States and Canada
   NMI Trade Approved - Complies with the Australian standards for legal use with third parties.
   Complies with the Eurasian Custom Union standards (Russia, Belarus, Kazakhstan).
   Pattern Approval Certificate of measuring instruments (Russia, Belarus, Kazakhstan).

European Community registered design.

European Community Registered Design

WDESK-L

- Six-digit backlit LCD display (20 mm height).
- Six-key membrane keyboard. 46 indicator symbols.

WDESK-R

- Six-digit red LED display (20 mm height).
- Six-key membrane keyboard. 16 signalling LEDs.

PG9 CABLE GLANDS

PANEL VERSION
extractable terminal board

IP67 ATEX II 3GD VERSION

IP40 VERSION
WITH D-SUB CONNECTORS

ETHERNET PORT

USB PORT

PANEL MOUNTING

WALL MOUNTING WITH
STAINLESS STEEL
ADJUSTABLE BRACKET

COLUMN MOUNTING
WITH ABS ADJUSTABLE
BRACKET

WINOX Series
WEIGHING AND BATCHING
WEIGHT INDICATORS

- Weight indicator in AISI 304 stainless steel, dimensions 206x286x108 mm, stainless steel adjustable bracket included (overall dimensions: 206x290x187 mm). IP68 protection rating (IP69K optional).
- Different versions for various types of electrical connections: cable glands, D-SUB connectors, removable terminal.
- Possible installations: wall, panel, column, desk.
- Multiprogram: single loading/unloading and multi-product batchings, 99 formulas.
- RS232 and RS485 ports (Modbus RTU/Laumas ASCII protocol).
- 3 digital inputs, 5 relay outputs.

Optional:
- IP69K protection rating.
- Weight radio transmission (Wi-Fi).
- Data storage on USB pen drive.
- 16-bit analog output: 0/4-20 mA; 0-5/10 V; ±5/10 V.
- Alibi memory.
- Additional RS485 port.
- Power supply with internal rechargeable 12 V 2.2 Ah battery.
- Fieldbuses: Profibus DP, DeviceNet, CANopen, Profinet IO, Modbus/TCP, Ethernet/IP, Ethernet TCP/IP for remote management (connectable to your PC, smartphone, tablet, etc. via web).
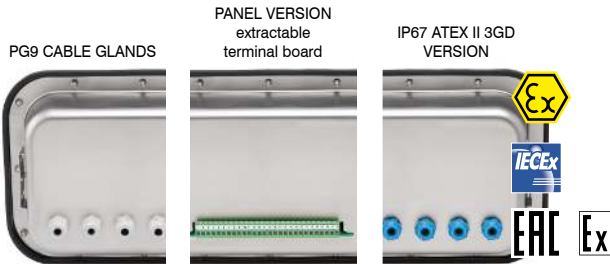
Certifications:
OIML R76:2006, class III, 3x10000 divisions, 0.2 μV/VSI
OIML R61 - WELMEC Guide 8.8:2011 (M.I.D.)

On request:
UL Recognized component - United States and Canada.
NMI Trade Approved - Complies with the Australian standards for legal use with third parties.
Complies with the Eurasian Custom Union standards (Russia, Belarus, Kazakhstan).
Pattern Approval Certificate of measuring instruments (Russia, Belarus, Kazakhstan).

European Community registered design.

European Community Registered Design

WiFi | BARCODE SCAN | IP68 | IP69K | ALIBI | ANALOG OUTPUT | RS485 | RS232

MODBUS RTU
PROFIBUS
DeviceNet
CANopen
PROFINET — PI
MODBUS/TCP
EtherNet/IP
ETHERNET TCP/IP

MULTILANGUAGE SOFTWARE

Standard version
with stainless steel adjustable bracket

WINOX-2G

- Backlit graphic LCD display, 128x75 mm, 240x128 pixel.
- 27-key membrane keyboard.
- Statistical checking of prepackages.

Optional:
- Barcode reader and PC keyboard management via USB.

PG9 CABLE GLANDS

PANEL VERSION
extractable
terminal board

IP67 ATEX II 3GD
VERSION

ETHERNET PORT

USB PORT

IP40 VERSION
WITH D-SUB CONNECTORS

MULTILANGUAGE SOFTWARE

WINOX-G

- Backlit graphic LCD display, 133x39 mm, 240x64 pixel.
- 21-key membrane keyboard.
- Statistical checking of prepackages.

Optional:
- Barcode reader and PC keyboard management via USB.

PANEL MOUNTING

COLUMN MOUNTING
WITH ABS SUPPORT FOR
BRACKET

DESK VERSION (206x286x85 mm)

WINOX-L

- Six-digit backlit LCD display (20 mm height).
- Six-key membrane keyboard.
  46 indicator symbols.

WINOX-R

- Six-digit red LED display (20 mm height).
- Six-key membrane keyboard.
  16 signalling LEDs.

WTAB Series

MODBUS/TCP · DeviceNet · CANopen · EtherNet/IP
PROFIBUS · PROFINET · PI · ETHERNET TCP/IP · MODBUS RTU

CE · OIML · M · c UL us · NMI TRADE APPROVED · EAC · EAC · PAC

WiFi · BARCODE SCAN · ALIBI · ANALOG OUTPUT · RS485 · RS232

ERGONOMIC DESIGN

WTAB-2G

MULTILANGUAGE SOFTWARE

- Backlit graphic LCD display, 128x75 mm, 240x128 pixel.
- 27-key membrane keyboard.
- Statistical checking of prepackages.

Optional:
- Barcode reader and PC keyboard management via USB.

WTAB-G

MULTILANGUAGE SOFTWARE

- Backlit graphic LCD display, 133x39 mm, 240x64 pixel.
- PC-type membrane keyboard with 50 keys and buzzer.
- Statistical checking of prepackages.

Optional:
- Barcode reader and PC keyboard management via USB.

WTAB-L

- Six-digit backlit LCD display (20 mm height).
- Eight-key membrane keyboard. 46 indicator symbols.

WTAB-R

- Six-digit red LED display (20 mm height).
- Eight-key membrane keyboard. 16 signalling LEDs.

- Weight indicator in ABS, dimensions 315x315x170 mm. IP40 protection rating.
- Ideal for desk mounting, ergonomic design.
- RS232 and RS485 ports (Modbus RTU/Laumas ASCII protocol).
- 3 digital inputs, 5 relay outputs.

Optional:
- Integrated thermal printer.
- Weight radio transmission (Wi-Fi).
- Data storage on USB pen drive.
- 16-bit analog output: 0/4-20 mA; 0-5/10 V; ±5/10 V.
- Alibi memory.
- Additional RS485 port.
- Power supply with internal rechargeable 12 V 2.2 Ah battery.
- Fieldbuses: Profibus DP, DeviceNet, CANopen, Profinet IO, Modbus/TCP, Ethernet/IP, Ethernet TCP/IP for remote management (connectable to your PC, smartphone, tablet, etc. via web).

Certifications:
OIML R76:2006, class III, 3x10000 divisions, 0.2 μV/VSI.
OIML R61 - WELMEC Guide 8.8:2011 (M.I.D.).

On request:
UL Recognized component - United States and Canada.
NMI Trade Approved - Complies with the Australian standards for legal use with third parties.
Complies with the Eurasian Custom Union standards (Russia, Belarus, Kazakhstan).
Pattern Approval Certificate of measuring instruments (Russia, Belarus, Kazakhstan).

European Community registered design.

European Community Registered Design

- INTEGRATED 24-COLUMN THERMAL PRINTER
- ETHERNET PORT
- USB PORT

BOTTOM VIEW WITH D-SUB CONNECTORS (IP40)

WEIGHBRIDGE INDICATORS

- Weight indicator for weighbridge in ABS or AISI 304 stainless steel.
- Ideal for desk mounting (WDESK series: also wall mounting).
- IP40 protection rating (D-SUB connectors).
- *BL version*: six-digit backlit LCD display (20 mm height), 46 indicator symbols, 19-key membrane keyboard.
- *BR version*: six-digit red LED display (20 mm height), 16 signalling LEDs, 19-key membrane keyboard.
- *BGE version*: backlit graphic LCD display, 240x64 pixel, 52-key membrane keyboard.
- *BL - BR version*: 3 serial ports (1x RS232 and 2x RS485, Modbus RTU/Laumas ASCII protocol).
- *BGE version*: 1 Ethernet TCP/IP port, 2 USB ports, 4 serial ports (2x RS232 and 2x RS485, Modbus RTU/Laumas ASCII protocol).
- 3 digital inputs, 5 relay outputs.

Optional:
- *BL - BR version*: weight radio transmission (Wi-Fi).
- *BGE version*: 12.2 V rechargeable lead battery, 2.2 mAh capacity (WTAB only).
- Alibi memory.
- Integrated thermal printer (WTAB only).

Certifications:
 OIML R76:2006, class III, 3x10000 divisions, 0.2 μV/VSI.
On request:
 UL Recognized component - United States and Canada.
 NMI Trade Approved - Complies with the Australian standards for legal use with third parties.
 Complies with the Eurasian Custom Union standards (Russia, Belarus, Kazakhstan).
 Pattern Approval Certificate of measuring instruments (Russia, Belarus, Kazakhstan).

European Community registered design.

Main functions:

- Double weighing (entry and exit), single weighing (entry and exit), double weighing with trailer, single weighing with trailer, multiple weighing (weighing of multi-compartment trucks).
- Open input weighs archive (max 254).
- *BL - BR version*: trucks database with password, max 999 preset tare that can be stored and recalled.
- *BGE version*: database with 500 vehicles (license plates, predetermined tare), products, customers and operators.
- Up to10000 weighed values that can be saved in alibi memory (optional).
- Traffic light management function (two-lights).
- Totals management (loaded and unloaded material).
- Printing of displayed weight, printing of open weighings, printing of totals, printing of last weighing.
- *BL - BR version*: customizable printouts header via PC software.
- *BGE version*: customizable printouts header and footer via PC software.
- Supported external printers: Epson TM-U295, Epson LX300, Custom Kube II, Laumas STAVT II. Other models on request.
- *BGE version*: barcode reader management with printing and open weighing ID recall. Data transfer to USB pendrive (included).

MULTILANGUAGE SOFTWARE

WINOX-BGE

MULTILANGUAGE SOFTWARE

WTAB-BGE

WALL MOUNTING WITH STAINLESS STEEL ADJUSTABLE BRACKET

WDESK-BL / WDESK-BR

WINOX-BL / WINOX-BR

WTAB-BL / WTAB-BR

VEHICLE WEIGHING

LOAD CELLS

COK **COL** **CO**

Compression column load cells.
Anti-rotation system.

Double shear beam load cells
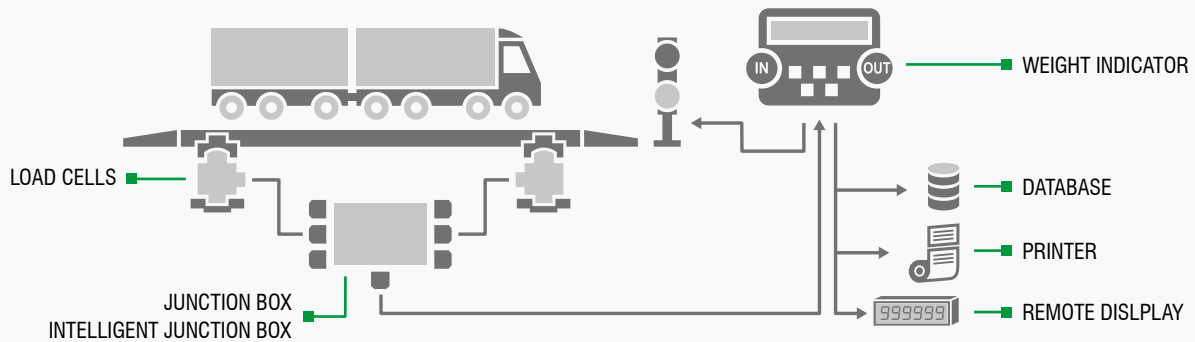equipped with bases and ball.

DTL

JUNCTION BOXES

IP67 **SHOCK PROTECTION DEVICE**

CE81INOX **CE81P**

INTELLIGENT JUNCTION BOXES

CLM4ABS / CLM8ABS **CLM8INOX**

WEIGHT INDICATOR

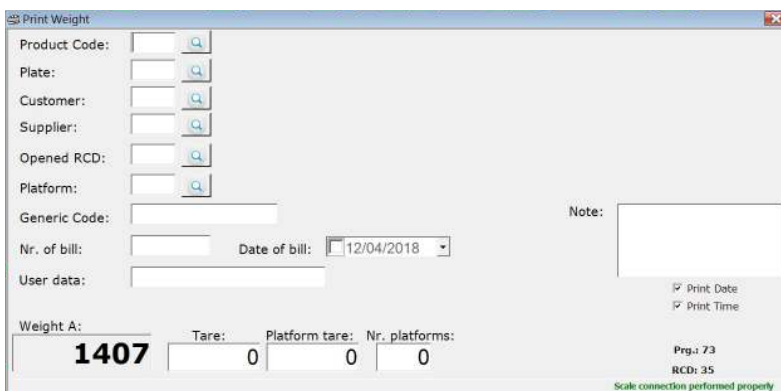LOAD CELLS

DATABASE

PRINTER

REMOTE DISLPLAY

JUNCTION BOX
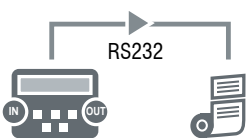INTELLIGENT JUNCTION BOX

PC SOFTWARE FOR WEIGHBRIDGE MANAGEMENT

TRUCKS DATABASE

The trucks database allows you to associate a preset tare value to an identification code (ID). This value may be subsequently recalled rapidly from the keyboard.

PRINTERS

RS232

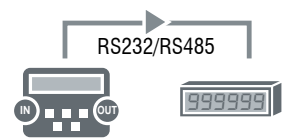**WTAB-BL/BR** **WTAB-BGE**

Integrated thermal printer

STAVT II

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

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

REMOTE DISPLAY

RS232/RS485
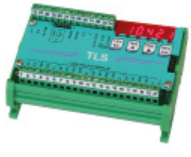
Suitable for weight remote displaying.

Products overview: DIGITIZER - WEIGHT TRANSMITTERS - INTELLIGENT JUNCTION BOXES

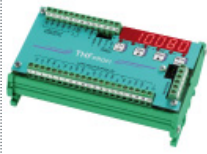|	DIGITIZER	TRANSMITTER	TRANSMITTER	TRANSMITTER	TRANSMITTER	TRANSMITTER
	LCB	**Serie TLB4**	**Serie TLB**	**Serie TLM8**	**Serie TLK**	**Serie TLS**
Housing material	AIS316 stainless steel	ABS	ABS	ABS	PC	ABS
Mounting	Integral to the load cell body or wired	Back panel mounting on Omega/DIN rail or front panel	Back panel mounting on Omega/DIN rail	Back panel mounting on Omega/DIN rail or junction box	Wall	Back panel mounting on Omega/DIN rail or junction box
Dimensions mm	97x38x82 (incl. flying connectors)	26x115x120	25x115x120	148x92x60	170x80x65	123x92x50
Protection rating	IP67	-	-	-	IP65	-
Supply	12÷24 VDC ±10% - 5 W	12÷24 VDC ±10% - 5 W	12÷24 VDC ±10% - 5 W	12÷24 VDC ±10% - 5 W	12÷24 VDC ±10% - 2 W	12÷24 VDC ±10% - 5 W
Battery	-	-	-	-	Optional	-
Display	-	Red LED	Red LED	Graphic LCD	LCD	Red LED
Keyboard	-	4 buttons	4 buttons	5-key	4-key	4-key
A/D Converter	24 bit (16000000 points) 4.8 kHz	4 channels 24 bit (16000000 points) 4.8 kHz	24 bit (16000000 points) 4.8 kHz	8 channels 24 bit (16000000 points) 4.8 kHz	24 bit (16000000 points) 4.8 kHz	24 bit (16000000 points) 80 Hz
Divisions *	±999999 - 6.6 nV/d	±999999 - 0.01 μV/d	±999999 - 0.01 μV/d	±999999 - 0.01 μV/d	±999999 - 0.01 μV/d	±999999 - 0.01 μV/d
Divisions CE M approved	-	3x10000e - 0.25 μV/VSI	3x10000e - 0.2 μV/VSI	3x10000e - 0.2 μV/VSI	3x10000e - 0.6 μV/VSI	-
Analog output	✓ (cod. LCBRS485ANA)	✓ (cod. TLB4)	✓ (cod. TLB)	✓	-	✓ (cod. TLS)
No. relay outputs	3	3	3	5	4	2
No. digital inputs	2	2	2	3	2	2
Serial port	RS485 (Modbus RTU) (cod. LCBRS485)	RS485 (Modbus RTU)	RS485 (Modbus RTU)	RS485 (Modbus RTU)	RS232, RS485 (Modbus RTU)	RS485 (Modbus RTU)
Wireless connection	-	-	-	-	✓ (cod. TLKWF)	-
Fieldbuses	Optional: IO-Link CANopen CC-Link IE CC-Link PROFIBUS DP PROFINET IO Ethernet/IP Modbus/TCP Ethernet TCP/IP EtherCAT POWERLINK SERCOS III	Optional: CANopen DeviceNet CC-Link PROFIBUS DP PROFINET IO Ethernet/IP Modbus/TCP Ethernet TCP/IP EtherCAT POWERLINK SERCOS III	Optional: CANopen DeviceNet CC-Link PROFIBUS DP PROFINET IO Ethernet/IP Modbus/TCP Ethernet TCP/IP EtherCAT POWERLINK SERCOS III	Optional: CANopen DeviceNet CC-Link PROFIBUS DP PROFINET IO Ethernet/IP Modbus/TCP Ethernet TCP/IP EtherCAT POWERLINK SERCOS III	-	-
Alibi memory Optional	-	✓	-	✓	-	-
Box versions Optional	-	-	-	IP67 188x188x130 mm	IP67	IP67, IP67 ATEX II 3GD 170x140x95 mm
Certifications	EAC cULus	OIML M EAC NMI TRADE APPROVED cULus	OIML M EAC NTEP	OIML M EAC cULus	OIML M EAC cULus	Ex EAC cULus

*) with measure range ±10 mV and sensitivity 2 mV/V
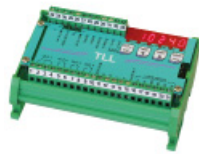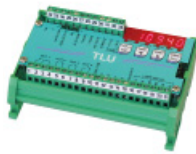
	TRANSMITTER				INTELLIGENT JUNCTION BOXES				
	THFPROFI	TLE	TLL	TLU	CLM8INOX	CLM4ABS CLM8ABS	CLM8TL	CLM8	CLM8I
	ABS	ABS	ABS	ABS	Inox	ABS	PC	-	-
	Back panel mounting on Omega/DIN rail or junction box	Back panel mounting on Omega/DIN rail or junction box	Back panel mounting on Omega/DIN rail or junction box	Back panel mounting on Omega/DIN rail or junction box	Junction box	Junction box	Junction box	Back panel mounting on Omega/DIN rail	-
	148x92x50	90x95x60	123x92x50	123x92x50	200x148x45	210x130x40	170x140x95	125x92x52	151x72x30
	-	-	-	-	IP67			-	-
	12÷24 VDC ±10% - 5 W	12÷24 VDC ±10% - 3 W	12÷24 VDC ±10% - 5 W	12÷24 VDC ±10% - 5 W	12÷24 VDC ±10% - 5 W				
	-	-	-	-	-				
	Red LED	LCD	Red LED	Red LED	LCD				
	4-key	Encoder with integrated button	4-key	4-key	4-key				
	24 bit (16000000 points) 4.8 kHz	24 bit (16000000 points) 4.8 kHz	24 bit (16000000 points) 80 Hz	24 bit (16000000 points) 80 Hz	8 channels 24 bit (16000000 points) 4.8 kHz				
	±999999 - 0.01 μV/d	±200000 - 0.01 μV/d	±999999 - 0.01 μV/d	±999999 - 0.01 μV/d	±999999 - 0.01 μV/d				
	3x10000e - 0.2 μV/VSI	-	-	-	3x10000e - 0.4 μV/VSI				
	-	✓	✓ (cod. TLLANA)	✓ (cod. TLUANA)	-				
	1	-	4	4	-				
	1	-	2	2	-				
	RS485 (Modbus RTU)	RS485 (Modbus RTU)	RS232, RS485 (Modbus RTU)	RS232, RS485 (Modbus RTU)	RS232, RS485 (Modbus RTU)				
	-	-	-	-	-				
	PROFIBUS DP slave	-	-	-	_Optional_: Ethernet TCP/IP				
	-	-	-	-	✓				
	IP67, IP67 ATEX II 3GD 170x140x95 mm	IP67, IP67 ATEX II 3GD 170x140x95 mm	IP67, IP67 ATEX II 3GD 170x140x95 mm	IP67, IP67 ATEX II 3GD 170x140x95 mm	-				

Products overview: WEIGHT INDICATORS

	W100	W200 series **		WDOS	WLIGHT	WDESK series		
	W100	**W200**	**W200BOX W200BOXEC**	**WDOS**	**WLIGHT**	**-G**	**-L**	**-R**
Housing material	PPO	PPO	PC	PPO	ABS	ABS		
Mounting	Panel	Panel	Wall	Panel	Wall, column, desk	Wall, panel, column, desk		
Dimensions mm	48x96x130	96x96x130	170x140x95	96x96x130	120x200x280	122x226x164		
Protection rating	IP54 *optional: IP65*	IP54 *optional: IP65*	IP67	IP54 *optional: IP65*	IP40	IP67		
Supply	12÷24 VDC ±10% - 5 W	12÷24 VDC ±10% - 5 W		12÷24 VDC ±10% - 5 W	12÷24 VDC ±10% - 6 W	12÷24 VDC ±10% - 6 W		
Supply 115/230 VAC 50/60 Hz *optional*	-	✓ not compatible with fieldbus	-	✓ not compatible with fieldbus	-	✓ *not available for D version*		
Power supply 24 V 450 mA, input 100-240 VAC	-	-	-	-	-	✓ *included for P - D versions*		
Battery *optional*	-	-	-	-	✓	✓		
Display	Red LED	Red LED		Graphic LCD Red LED	Red LED	Graphic LCD 133x39 mm	LCD	Red LED
Keyboard	4-key	5-key		10-key	5-key	21-key	6-key	6-key
A/D Converter	24 bit (16000000 points) 4.8 kHz	24 bit (16000000 points) 4.8 kHz		24 bit (16000000 points) 4.8 kHz	24 bit (16000000 points) 4.8 kHz	24 bit (16000000 points) 4.8 kHz		
Divisions *	±999999 - 0.01 μV/d	±999999 - 0.01 μV/d		±999999 - 0.01 μV/d	±999999 - 0.01 μV/d	±999999 - 0.01 μV/d		
Divisions C€M *approved*	3x10000e 0.2 μV/VSI	3x10000e 0.2 μV/VSI		3x10000e 0.2 μV/VSI	-	3x10000e 0.2 μV/VSI		
Analog output *optional*	✓	✓		✓	-	✓		
No. relay outputs	5	5		5	-	5		
No. digital inputs	3	3		3	-	3		
Serial port	RS232, RS485 (Modbus RTU)	RS232, RS485 (Modbus RTU)		RS232, RS485 (Modbus RTU)	RS232 (Modbus RTU)	RS232, RS485 (Modbus RTU)		
Wireless connection	-	-		-	-	✓ *OPZW1RADIO: optional WiFi module*		
Fieldbuses	-	*Optional:* PROFIBUS DP DeviceNet CANopen PROFINET IO Modbus/TCP Ethernet/IP Ethernet TCP/IP		*Optional:* PROFIBUS DP DeviceNet CANopen PROFINET IO Modbus/TCP Ethernet/IP, Ethernet TCP/IP		*Optional:* PROFIBUS DP DeviceNet CANopen PROFINET IO Modbus/TCP Ethernet/IP Ethernet TCP/IP		
USB port *optional*	-	✓	-	✓	-	✓		
Batching programs	-	✓		✓	-	✓		
Multilingual software	-	-		✓	-	✓	-	-
Alibi memory *optional*	✓	✓		✓	-	✓		
Certifications	OIML M EAC EAC PAC cULus NMI TRADE APPROVED	OIML M Ex IECEx EAC EAC Ex EAC PAC cULus NMI TRADE APPROVED		OIML M EAC EAC PAC cULus NMI TRADE APPROVED	EAC cULus	OIML M Ex EAC EAC PAC cULus NMI TRADE APPROVED		

*) with measure range ±10 mV and sensitivity 2 mV/V

**) *ADPEW200* ATEX explosion proof box, W200 indicators, Zener barriers.

	WINOX series				WTAB series				WDESK		WINOX			WTAB		
WEIGHBRIDGE INDICATORS series →																
	-2G	-G	-L	-R	-2G	-G	-L	-R	-BL	-BR	-BGE	-BL	-BR	-BGE	-BL	-BR
Material	AISI 304 stainless steel				ABS				ABS		AISI 304 stainless steel			ABS		
Mounting	Wall, panel, column, desk				Desk				Wall, desk		Desk			Desk		
Dimensions	206x286x108				315x315x170				122x226x164		206x286x85			315x315x170		
Protection	IP68 optional: IP69K				IP40				IP40		IP40			IP40		
Power	12÷24 VDC ±10% - 6 W				12÷24 VDC ±10% - 6 W				12÷24 VDC ±10% - 6 W							
available for P version	✓				-				-		-			-		
included for P - D versions	✓				✓				✓		✓			✓		
not available for D version	✓				✓				✓		-			✓		
Display	2G: graphic LCD 128x75 mm; G: graphic LCD 133x39 mm		LCD	Red LED	2G: graphic LCD 128x75 mm; G: graphic LCD 133x39 mm		LCD	Red LED	LCD	Red LED	graphic LCD 133x39 mm	LCD	Red LED	graphic LCD 133x39 mm	LCD	Red LED
Keys	27-key	21-key	6-key	6-key	27-key	50-key	8-key	8-key	19-key	19-key	52-key	19-key	19-key	52-key	19-key	19-key
A/D	24 bit (16000000 points) 4.8 kHz				24 bit (16000000 points) 4.8 kHz				24 bit (16000000 points) 4.8 kHz							
	±999999 - 0.01 µV/d				±999999 - 0.01 µV/d				±999999 - 0.01 µV/d							
	3x10000e 0.2 µV/VSI				3x10000e 0.2 µV/VSI				3x10000e 0.2 µV/VSI							
	✓				✓				-							
	5				5				5							
	3				3				3							
Serial	RS232, RS485 (Modbus RTU)				RS232, RS485 (Modbus RTU)				RS232, RS485 (Modbus RTU)							
WiFi	✓ OPZW1RADIO: optional WiFi module				✓ OPZW1RADIO: optional WiFi module				✓ OPZW1RADIO: optional WiFi module		-	✓ OPZW1RADIOWINOX: optional WiFi module		-	✓ OPZW1RADIO: optional WiFi module	
Fieldbus	Optional: PROFIBUS DP, DeviceNet, CANopen, PROFINET IO, Modbus/TCP, Ethernet/IP, Ethernet TCP/IP				Optional: PROFIBUS DP, DeviceNet, CANopen, PROFINET IO, Modbus/TCP, Ethernet/IP, Ethernet TCP/IP				-	-	Optional: Ethernet TCP/IP	-	-	Optional: Ethernet TCP/IP	-	-
	✓				✓						✓			✓		
	✓				-						-			-		
	✓	✓	-	-	✓	✓	-	-	-		✓	-		✓	-	
	✓				✓						✓			✓		
Approvals	OIML · M · Ex (ATEX) · IECEx · EAC Ex · EAC · EAC · PAC · c UL us · NMI TRADE APPROVED				OIML · M · EAC · EAC · PAC · c UL us · NMI TRADE APPROVED				OIML · M · EAC · EAC · PAC · c UL us · NMI TRADE APPROVED							