WEBINAR

21 April 2021

#LAUMASKNOWHOW

LAUMAS®
Innovation in Weighing

WEIGHT INDICATORS

SUITABLE FOR ANY INDUSTRIAL PROCESS

WEIGHING SYSTEMS

- Versatility
- Certifications
- IP protection

APPLICATIONS

- Weight visualization
- Batching
- Weighbridge

STRATEGY

Standard user interface

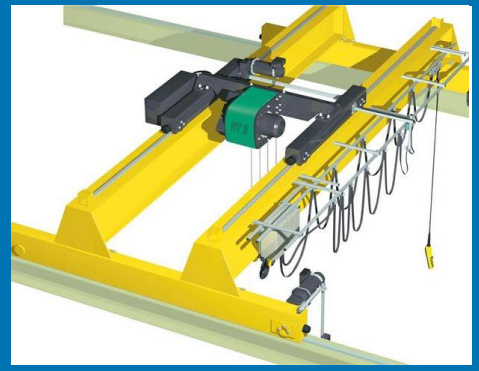
WEIGHING SYSTEMS

Simple weighing

Filling systems

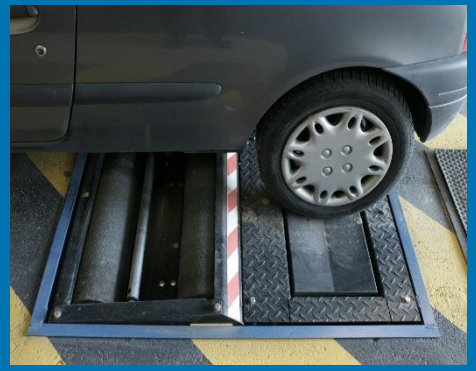
Discharging systems

Testing equipment

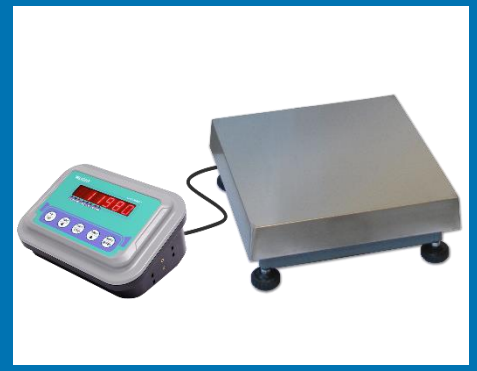


Lifting systems

On board weighing

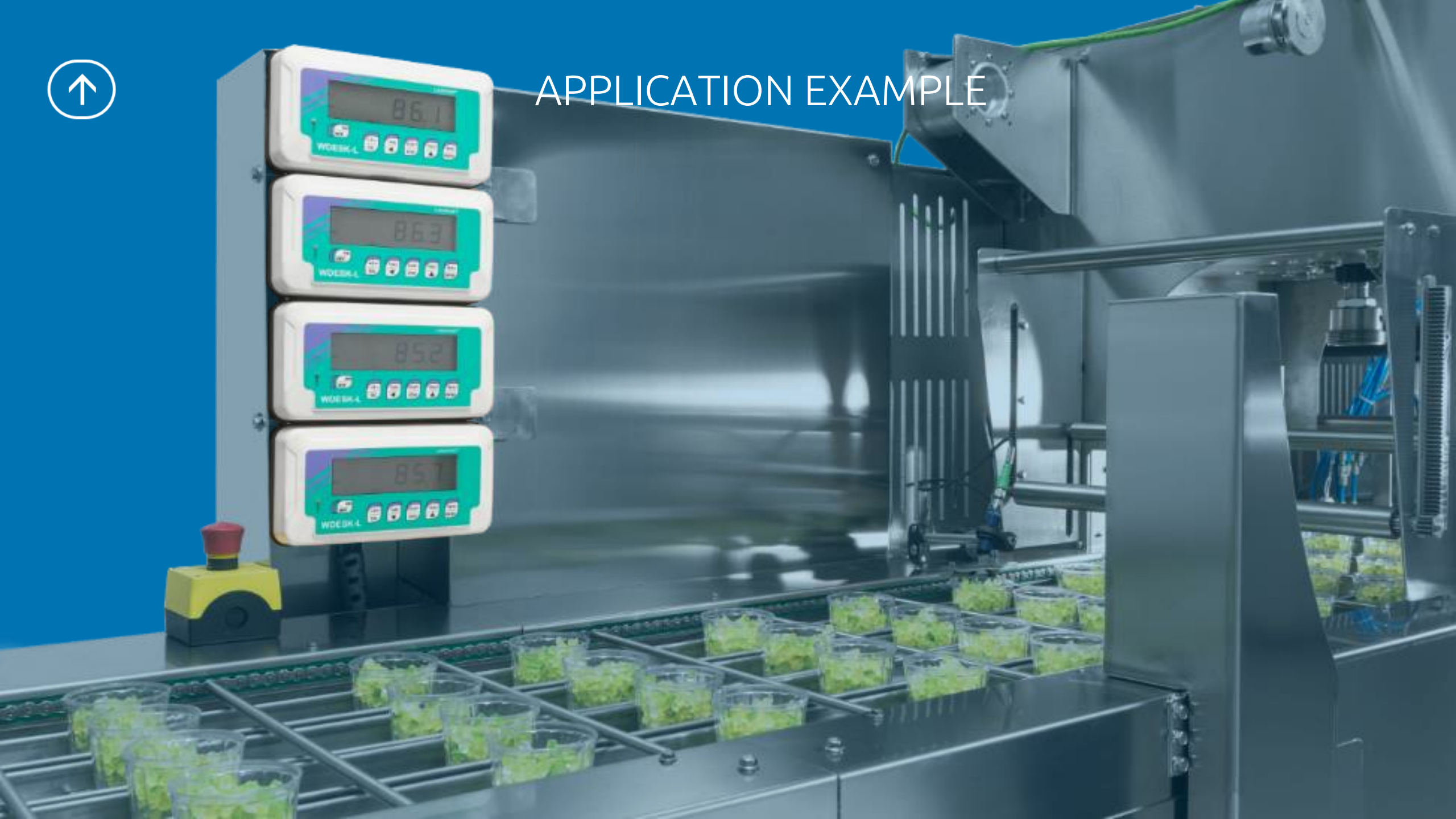


Vehicle weighing



Industrial scales

APPLICATION EXAMPLE



CERTIFICATIONS

LEGAL FOR TRADE

HAZARDOUS AREA

OTHERS

WORK IN PROGRESS

LEGAL FOR TRADE

European Union

OIML-R76 NAWI
OIML-R61 (MID)

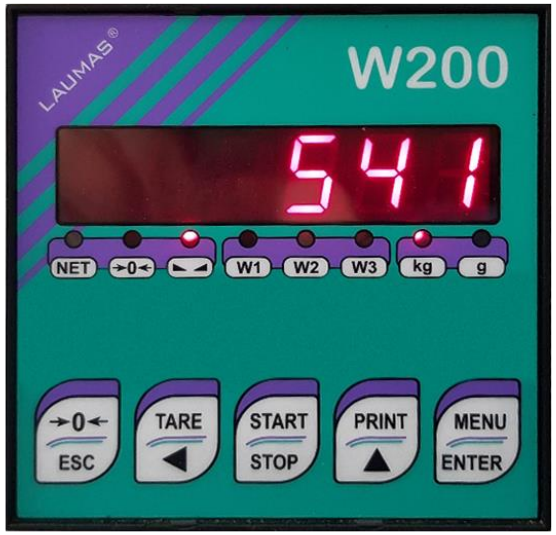
Russian Federation

Australian & New Zealand standards

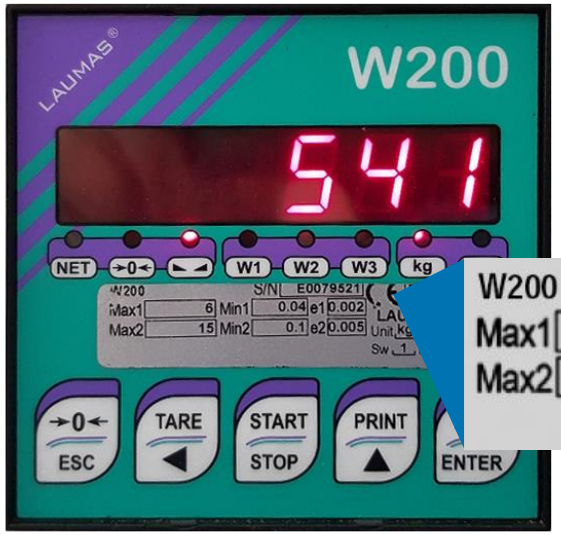
U. S. + Canada standards

Example

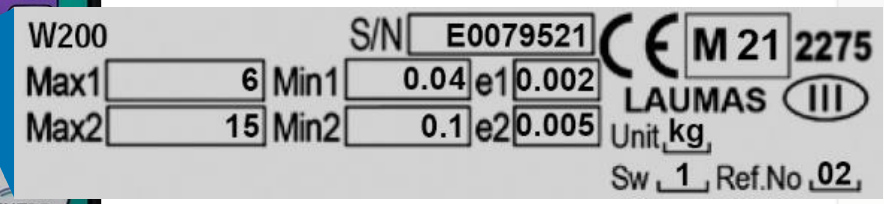
Example

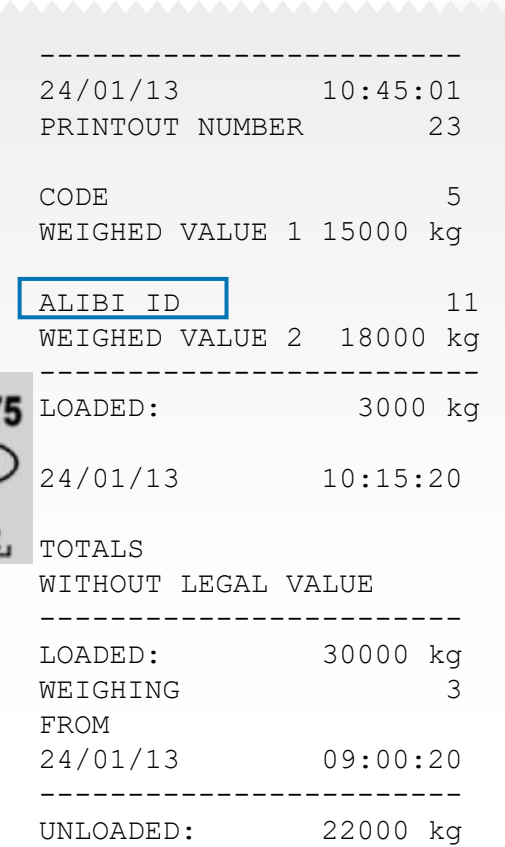


INTERNAL USE



LEGAL FOR TRADE





```
------------------------
24/01/13         10:45:01
PRINTOUT NUMBER         23

CODE                     5
WEIGHED VALUE 1 15000 kg

ALIBI ID                11
WEIGHED VALUE 2  18000 kg
------------------------
LOADED:           3000 kg

24/01/13         10:15:20

TOTALS
WITHOUT LEGAL VALUE
------------------------
LOADED:          30000 kg
WEIGHING                 3
FROM
24/01/13         09:00:20
------------------------
UNLOADED:        22000 kg
```

HAZARDOUS AREA

European Union

Directive
2014/34/EU - ATEX;
zone 0-1-2 gas ;
zone 20-21-22 dust

IECEx CoC
Certificate
IEC 60079-0, 60079-11,
60079-31, 60079-15;
zone 0-1-2 gas;
zone 20-21-22 dust

Eurasian
Custom Union

TR CU 012

Example

Example

WDESK
-L / -R / -G

"X" rear version

WINOX
-L / -R / -G / -2G

"X" rear version

W200BOX

ADPEW200

OTHERS

Eurasian Custom Union

Electromagnetic compatibility

U. S. + Canada Standards

Low voltage devices

3A Sanitary Certification

Food and Pharmaceutical environment

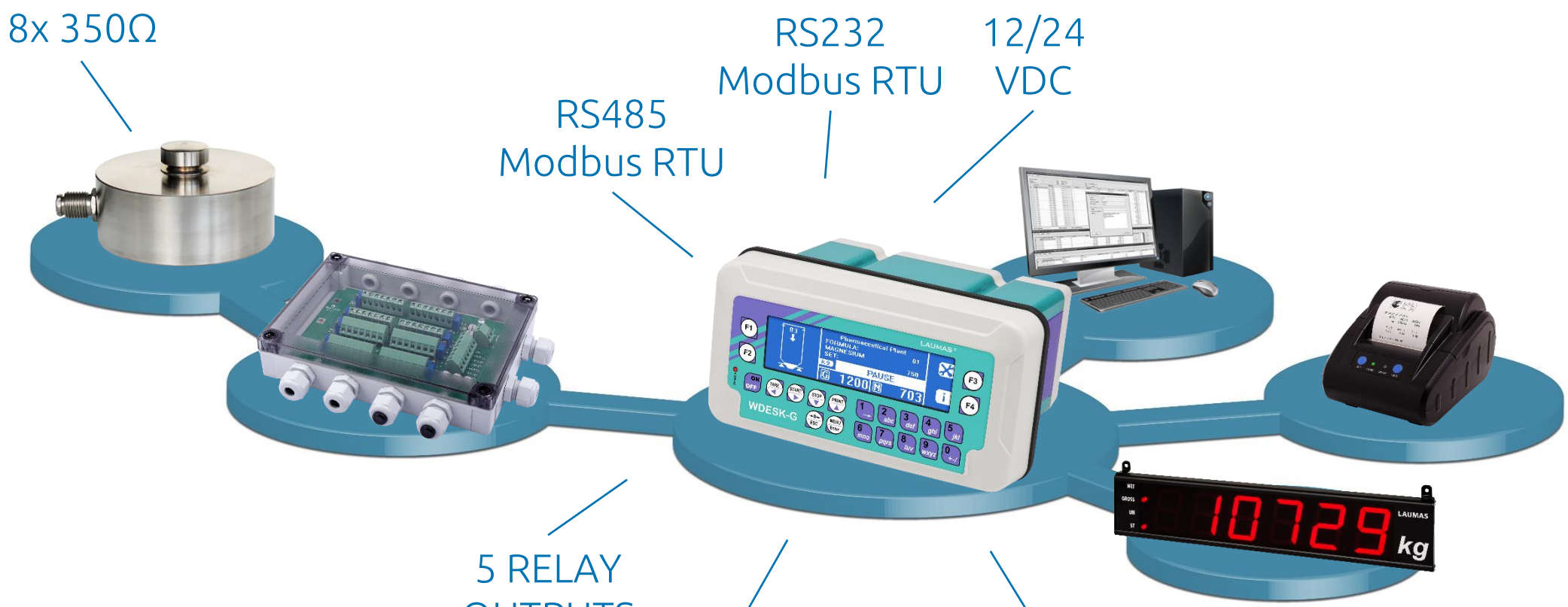
European Union

United Kingdom

Electromagnetic compatibility

WORK IN PROGRESS

COMMON TECHNICAL FEATURES



SOFTWARE COMMON FEATURES

OPERATIONAL SOFTWARE

INSTRUMENT MANAGER

OPERATIONAL SOFTWARE

Theoretical calibration

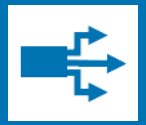
9 levels digital filter selection

Auto-zero and zero-track feature

Testing mode: mV verification

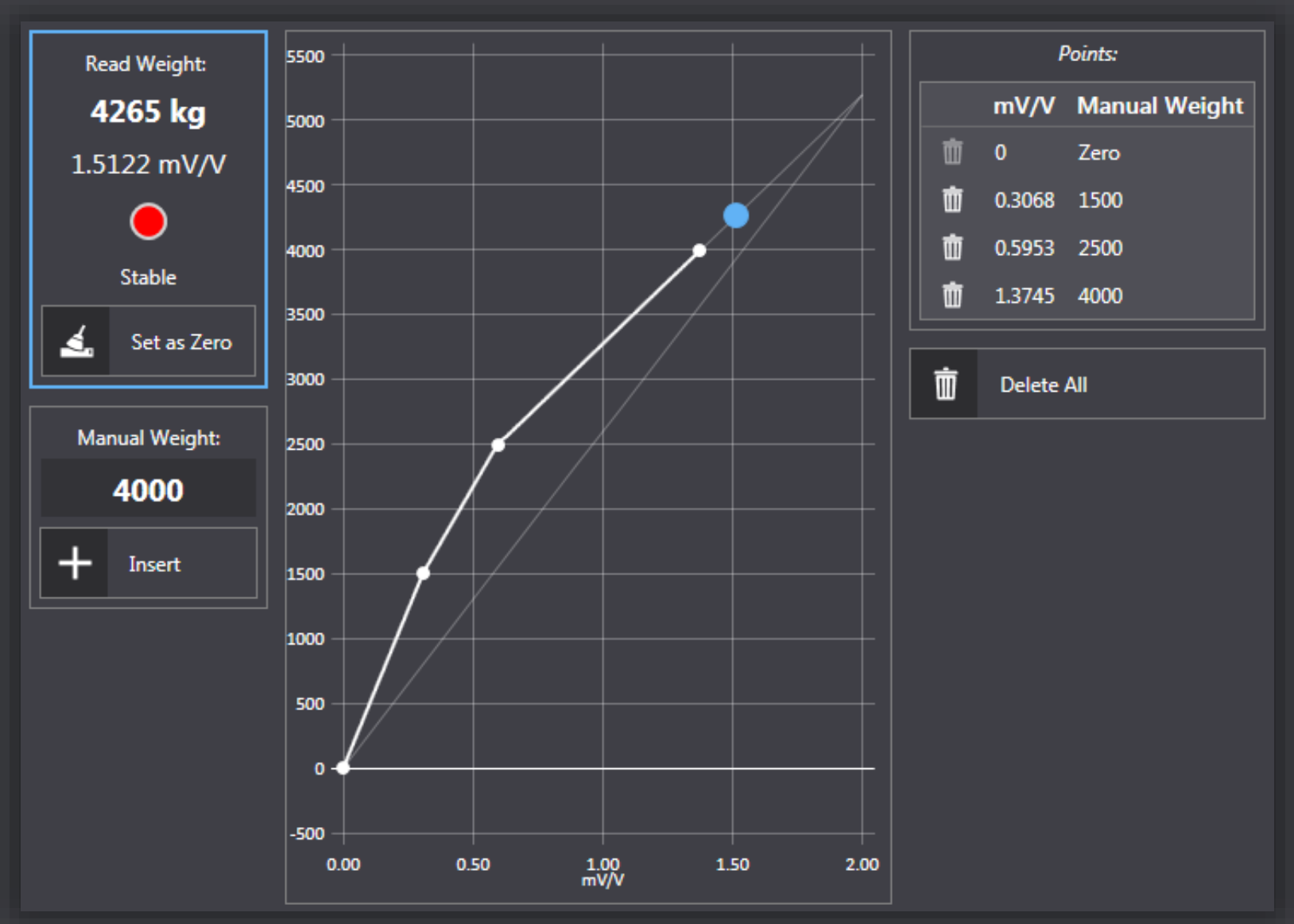
Linearization up to 8 points

Multi-functional serial ports



Connection to multichannel weight transmitters

Linearization
up to 8 points



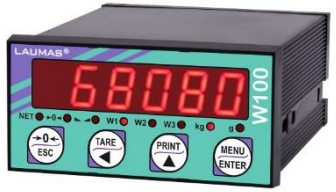
Multi-functional serial ports

RS232 / RS485

RS232 / RS485

RS232 / RS485

RS232 / RS485

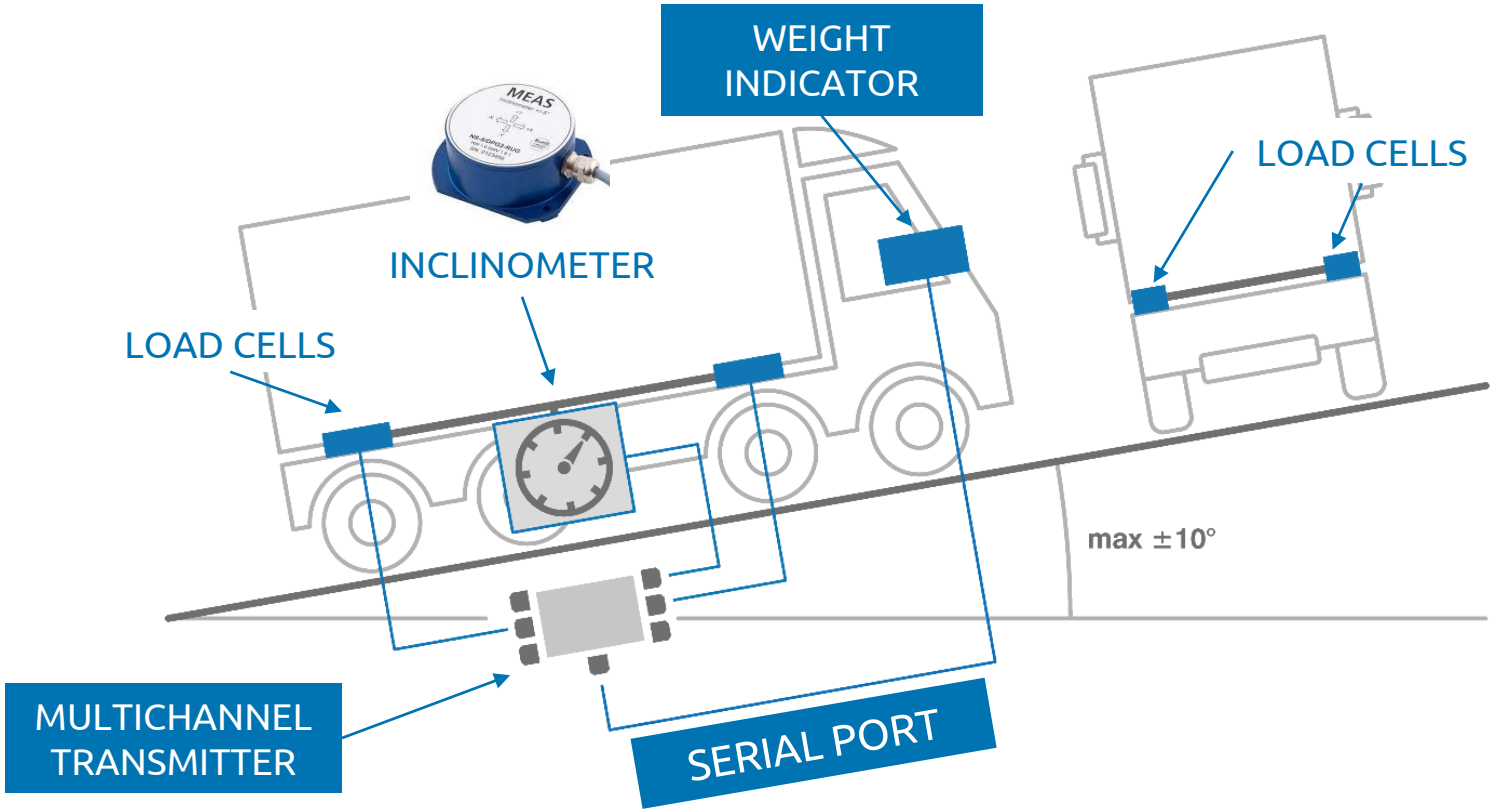


RS232 / RS485

Connection to multichannel weight transmitters

INCLINOMETER FUNCTION

INCLINOMETER FUNCTION



INSTRUMENT MANAGER

- Upload/unload calibrations and settings
- Setting profiles per customers

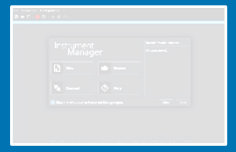
LAUMAS.COM

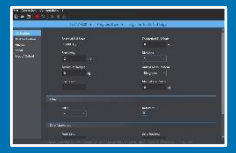
FREE SOFTWARE

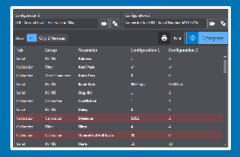
DOWNLOAD UPGRADE

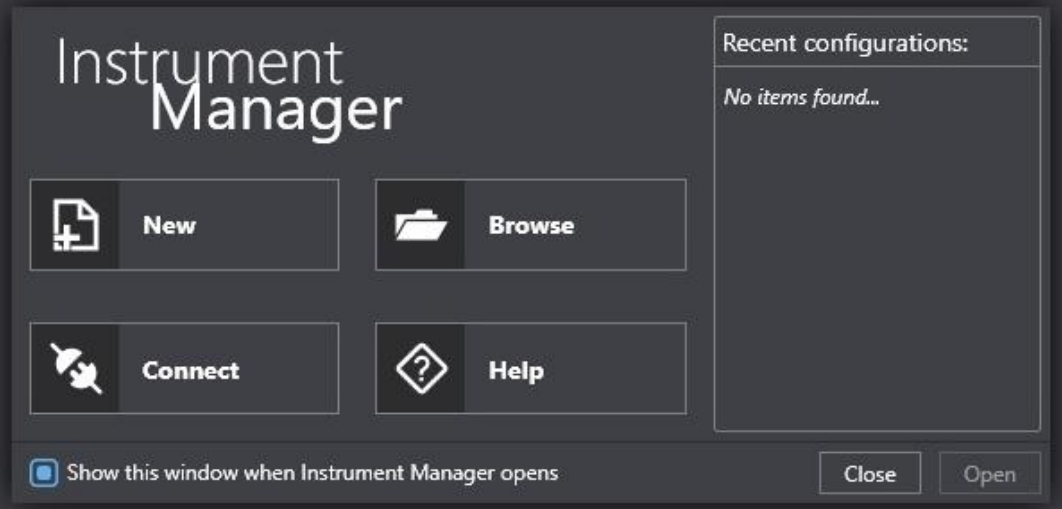
TECHNICAL WEBINAR

INSTRUMENT MANAGER









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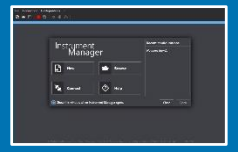
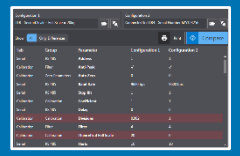
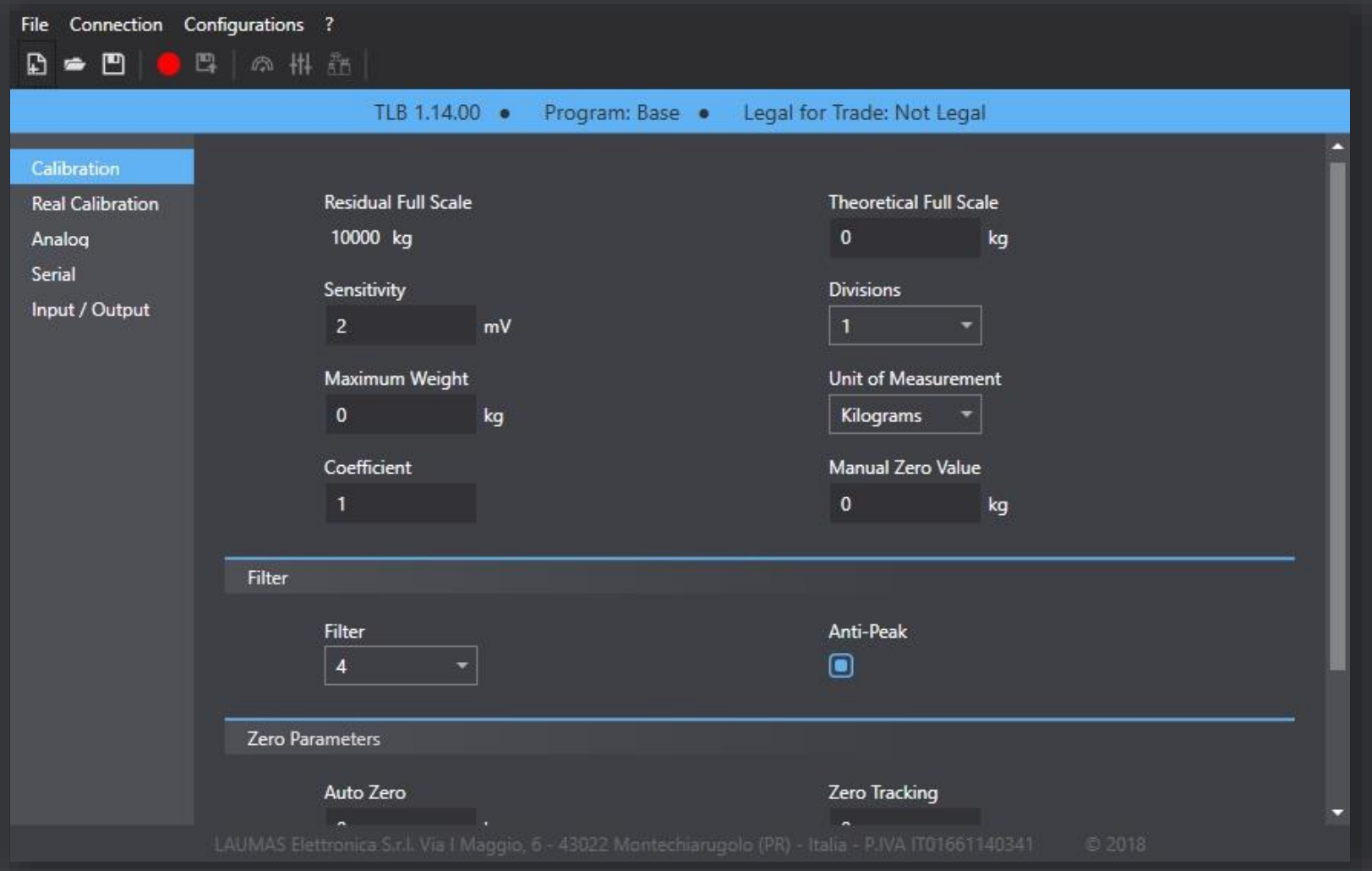
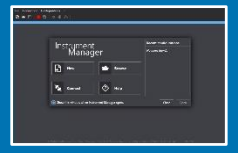
INSTRUMENT MANAGER







INSTRUMENT MANAGER



Configuration 1

TLB - Second Scale - Full Scale = 20kg

Configuration 2

Connected to TLB4 - Serial Number 625123256

Show | All | Only Differences

Print | Compare

Tab	Group	Parameter	Configuration 1	Configuration 2
Serial	RS 485	**Address**	1	1
Calibration	Filter	**Anti-Peak**	✓	✓
Calibration	Zero Parameters	**Auto Zero**	0	0
Serial	RS 485	**Baud Rate**	9600 bps	9600 bps
Serial	RS 485	**Stop Bit**	1	1
Calibration	Calibration	**Coefficient**	1	1
Serial	RS 485	**Delay**	0	0
Calibration	Calibration	**Divisions**	0.002	1
Calibration	Filter	**Filter**	4	4
Calibration	Calibration	**Theoretical Full Scale**	20	0
Serial	RS 485	**Hertz**	10	10

MAIN FEATURES OVERVIEW

MOUNTING SOLUTIONS

EXPLOSION PROOF

FIELDBUSES

STANDARD OR **OPTIONAL** FEATURES
(see the Datasheet for each Weight Indicator model)

MOUNTING SOLUTIONS

- FRONT PANEL
- DESK
- WALL&COLUMN

MOUNTING SOLUTIONS

- FRONT PANEL
- DESK
- WALL&COLUMN

MOUNTING SOLUTIONS

FRONT PANEL

DESK

WALL&COLUMN

EXPLOSION PROOF

FIELDBUSES

Modbus-RTU

Modbus TCP/IP

DeviceNet™

EtherNet/IP™

PI CERTIFIED
PROFIBUS • PROFINET

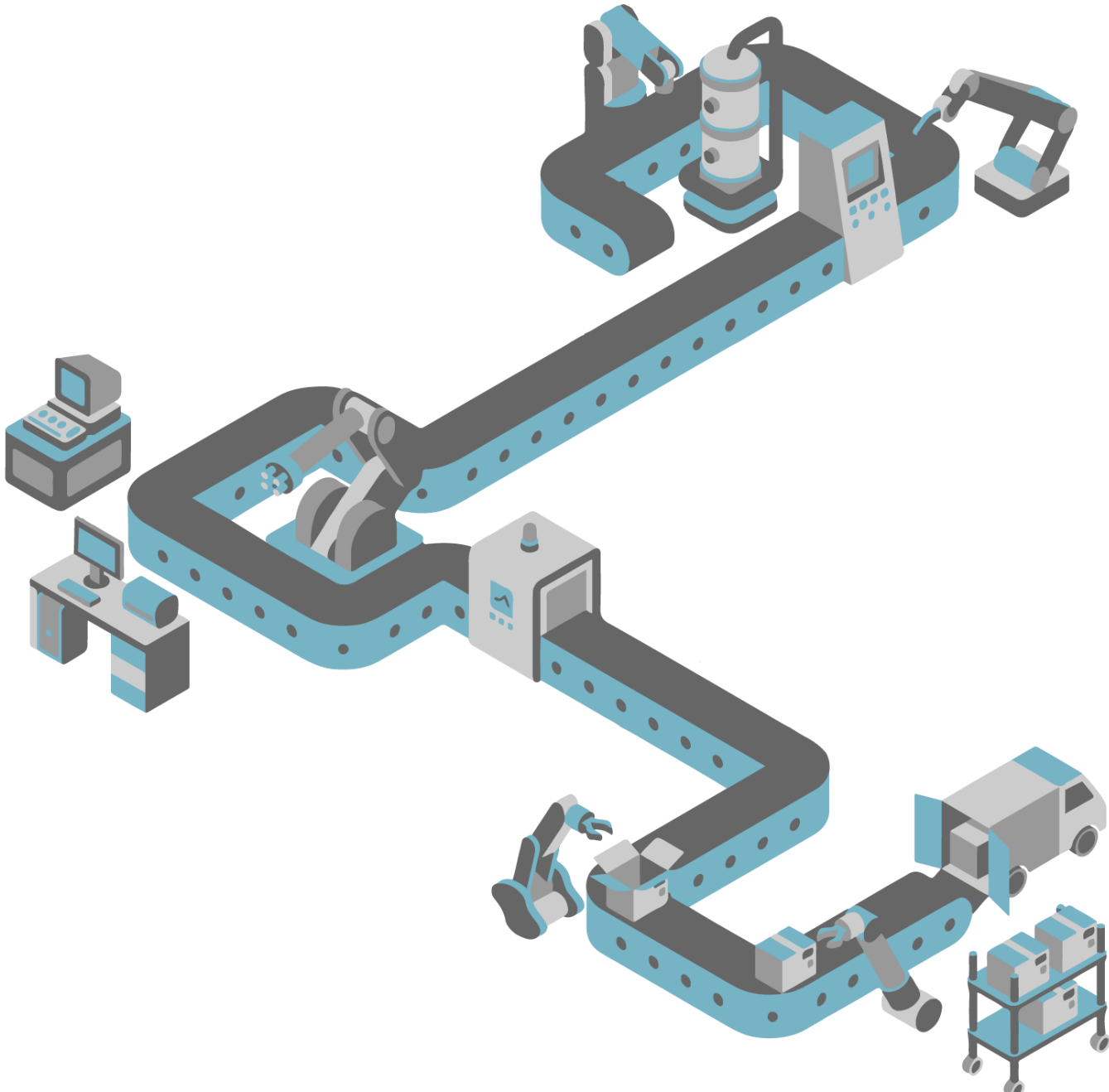
PROFIBUS®

CANopen®

ETHERNET TCP/IP

Wi Fi

ANALOG OUTPUT



W SERIES SOFTWARE

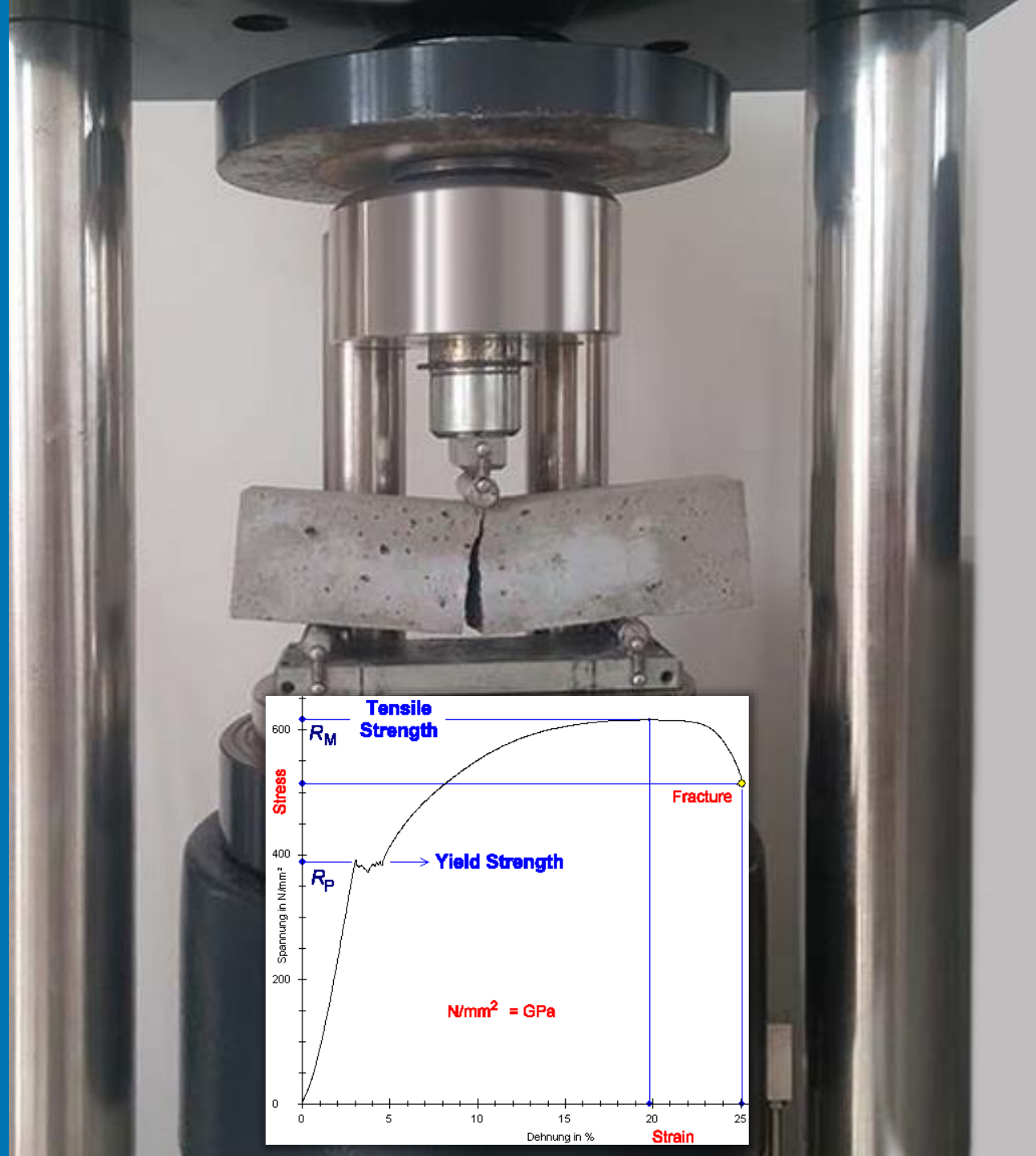
BASE

BATCHING
MONOPRODUCT
MULTIPRODUCTS

MULTI SOFTWARE

BASE

- Multi-functional **relay outputs** :
  - setpoints
  - stable weight
- **E/EC** (12 groups – 5 setpoints)
- **Coefficient**
- **Peak tracking** (material break point)
- **Semi-automatic** and **pre-set tare**



BATCHING
COMMON FEATURES

- **99 settable formulas**
- **E/EC** (first 12 formulas)
- **2-speed batching:** coarse - fine
- **Fall** and **tolerance** value management for each formula
- **Batching resume** after a blackout (automatic or manual mode)
- Many different **alarms** to detect any malfunctioning

LOAD
3/6/14
UNLOAD

SPECIFIC FEATURES

LOAD - 3/6/14 PRODUCTS

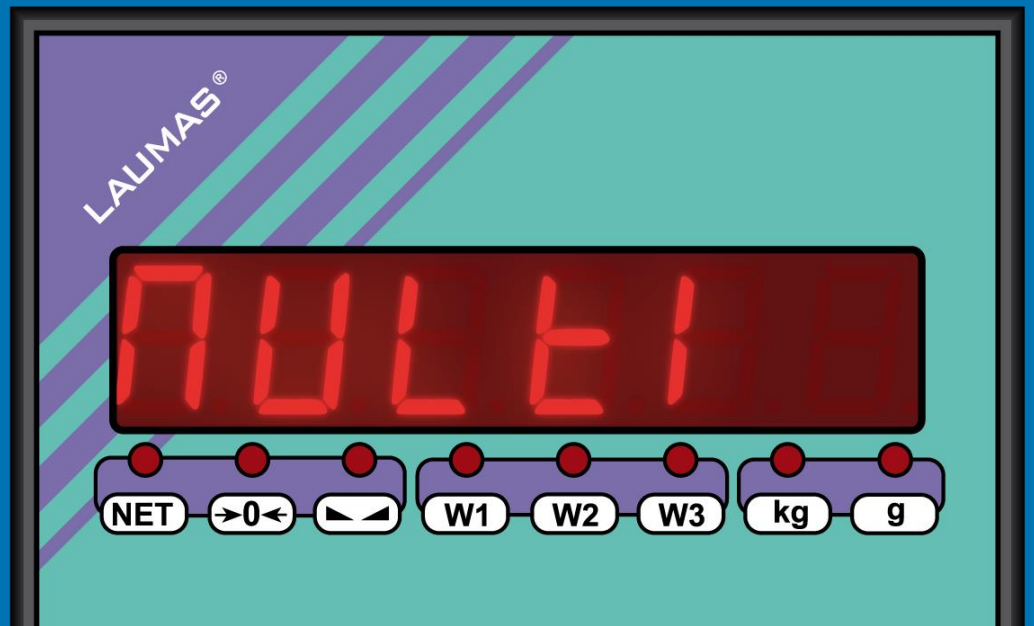
- End of cycle contact
- Automatic tare management

UNLOAD

- End of cycle contact
- Semi automatic tare
- Automatic reload of the silo/tank/hopper
- Setting minimum and maximum values

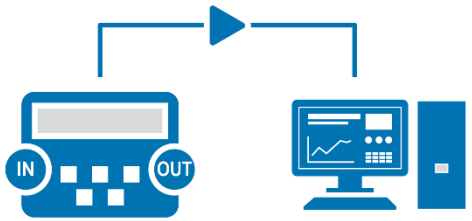
MULTI-SOFTWARE

- All softwares included and selectable
- Suitable for stocking



DATA RECORDING

- WEIGHED VALUES
- BATCHING
- STRESS TEST VALUES



OPZWDATIPC
SERIAL PORT

OPZWUSB
USB PORT

PROG-DB
Data storage
PC- software

INCLUDED

REGISTRATION METHODS

OPZWDATIPC

- RS232
- RS485

OPZWUSB

- USB key
- Stress test mode

BASE
software

- Weight, date and time
- ID number
- Coefficient (unit of measure)
- Peak

BATCHING
software

- Complete batching details including date and time

- Alibi memory
- Data printing

REGISTRATION METHODS

- **Print button**
- **Close an input**
- **Built-in timer:** recording a weight curve
- **Setpoint:** when the weight exceeds a certain threshold or returns below the threshold
- **Stable weight** value
- **Automatic** for Batching software

PROG-DB

Data storage
PC- software

FREE
SOFTWARE

- **Recognition of new instruments**
- **Customization** of a specific instrument with name and notes
- Display of **single instrument data**
- **Research of data** on all the instruments
- **Filters**
- **Export to CSV data** files and **printing** of the collected data
- **G/2G Weight Indicators:** product and batch name recording

PROG-DB

Data storage
PC- software

FREE
SOFTWARE

Prog DB - rev: 1.0.6 - by LAUMAS Elettronica srl - [Batching Cycle Detail Search]

File Data

INSTRUMENT	ALL	PRODUCT	ALL
SCALE	ALL	DATE FROM	ALL
FORMULA	ALL	DATE TO	ALL

SEARCH

CLEAR

MODEL	SERIAL NUMBER	DATE and TIME	FORMULA	CURRENT CYCLE	DETAIL	DETAIL TYPE	REAL WEIGHT	THEORETICAL WEIGHT	MEASURE UNIT
W200	203110605	02-07-2012 16.13.10	1	1 / 20	TARE	AUTOTARE	0,0000	0,0000	KG
W200	203110605	02-07-2012 16.13.10	1	1 / 20	PRODUCT: 1	NET	520,0000	500,0000	KG
W200	203110605	02-07-2012 16.13.10	1	1 / 20	PRODUCT: 2	NET	220,0000	200,0000	KG
W200	203110605	02-07-2012 16.13.23	1	2 / 20	TARE	AUTOTARE	0,0000	0,0000	KG
W200	203110605	02-07-2012 16.13.23	1	2 / 20	PRODUCT: 1	NET	520,0000	500,0000	KG
W200	203110605	02-07-2012 16.13.23	1	2 / 20	PRODUCT: 2	NET	230,0000	200,0000	KG
W200	203110605	02-07-2012 16.13.36	1	3 / 20	TARE	AUTOTARE	0,0000	0,0000	KG
W200	203110605	02-07-2012 16.13.36	1	3 / 20	PRODUCT: 1	NET	521,0000	500,0000	KG
W200	203110605	02-07-2012 16.13.36	1	3 / 20	PRODUCT: 2	NET	218,0000	200,0000	KG
W200	203110605	02-07-2012 16.13.49	1	4 / 20	TARE	AUTOTARE	0,0000	0,0000	KG
W200	203110605	02-07-2012 16.13.49	1	4 / 20	PRODUCT: 1	NET	519,0000	500,0000	KG
W200	203110605	02-07-2012 16.13.49	1	4 / 20	PRODUCT: 2	NET	220,0000	200,0000	KG
W200	203110605	02-07-2012 16.14.02	1	5 / 20	TARE	AUTOTARE	0,0000	0,0000	KG
W200	203110605	02-07-2012 16.14.02	1	5 / 20	PRODUCT: 1	NET	520,0000	500,0000	KG
W200	203110605	02-07-2012 16.14.02	1	5 / 20	PRODUCT: 2	NET	230,0000	200,0000	KG
W200	203110605	02-07-2012 16.14.15	1	6 / 20	TARE	AUTOTARE	0,0000	0,0000	KG
W200	203110605	02-07-2012 16.14.15	1	6 / 20	PRODUCT: 1	NET	519,0000	500,0000	KG
W200	203110605	02-07-2012 16.14.15	1	6 / 20	PRODUCT: 2	NET	230,0000	200,0000	KG
W200	203110605	02-07-2012 16.14.28	1	7 / 20	TARE	AUTOTARE	0,0000	0,0000	KG
W200	203110605	02-07-2012 16.14.28	1	7 / 20	PRODUCT: 1	NET	519,0000	500,0000	KG
W200	203110605	02-07-2012 16.14.28	1	7 / 20	PRODUCT: 2	NET	220,0000	200,0000	KG
W200	203110605	02-07-2012 16.14.41	1	8 / 20	TARE	AUTOTARE	0,0000	0,0000	KG

TOT REAL 14914,0000 TOT TEORICAL 14000,0000

OVERVIEW

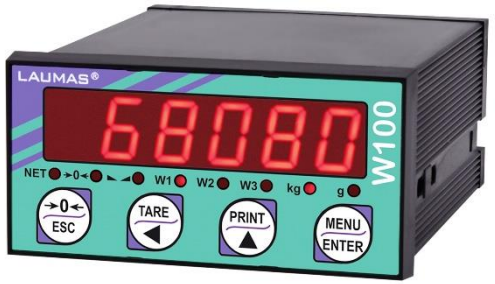
WLIGHT

THE SIMPLEST ONE

- Ideal for simple scales
- 1xRS232
- Scale linearization up to 5 points
- No relay outputs nor logic inputs
- Installation: desk, wall, column

W100

THE MOST POPULAR

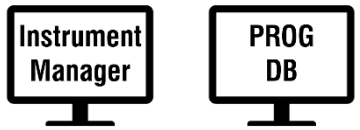


- BASE software
- Front panel mounting → IP65 gasket
- Analog output

Instrument Manager

W200

- BASE and BATCHING software
- Front panel mounting → IP65 gasket
- Analog output and fieldbus
- OPZWDATIPC – OPZWUSB



W200BOX

- BASE and BATCHING software
- Wall mounting
- Analog output and fieldbus
- EX zone 2-22 approved
- OPZWDATIPC

Instrument Manager

PROG DB

WDOS

- Red LED + Backlit LCD graphic display
- BASE and BATCHING software
- Language selection
- Front panel mounting → IP65 gasket
- Analog output and fieldbus
- OPZWDATIPC – OPZWUSB
- Product and plant name
- Simultaneous Net & Gross display
- Synoptic information for batching system

ADPEW200

- ADPE box approved for EX zone 1-21
- Integrated Zener barriers
- BASE and BATCHING software
- Analog output and fieldbus
- OPZWDATIPC

Instrument Manager

PROG DB

WLIGHT
W100
W200
ADPE

Compare

CERTIFICATIONS

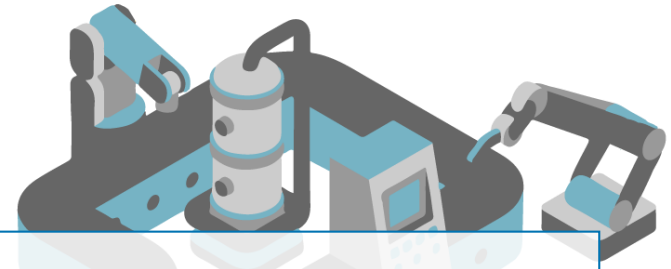
	OIML R76	cULus	EAC	NMI TRADE APPROVED	GOST	Ex	IECEx	EAC Ex
	✓	✓	✓	-	-	-	-	-
	✓	✓	✓	✓	✓	-	-	-
	✓	✓	✓	✓	✓	-	-	-
	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	-	-	-
	✓	✓	✓	✓	✓	✓	✓	✓

WLIGHT
W100
W200
ADPE

Compare

WDESK
WINOX
WTAB

FIELDBUSES



Modbus-RTU

Modbus-RTU ANALOG OUTPUT

Modbus-RTU Modbus TCP/IP CANopen

DeviceNet EtherNet/IP ETHERNET TCP/IP

PI CERTIFIED PROFIBUS • PROFINET PROFIBUS ANALOG OUTPUT

WDESK
WINOX
WTAB

MAIN
DIFFERENCE

BASE+BATCHING

BASE+BATCHING
+DATABASE
+STOCKS
+ PREPACKAGES

WEIGHBRIDGE

BASE

BASE+DATABASE
+PREPACKAGES

-L | -R | -G | -2G | -BL | -BR | -BGE

-L / -R / -G / -2G

COMMON FEATURES

ADVANCED FEATURES

Same W200 indicator’s functions

-L / -R / -G / -2G

COMMON FEATURES

- INSTALLATION
- REAR PANEL
- WiFi
- CERTIFICATIONS
- FIELDBUSES

DESK

WALL

COLUMN

FRONT PANEL

-L / -R / -G / -2G

COMMON FEATURES

- INSTALLATION
- REAR PANEL
- WiFi
- CERTIFICATIONS
- FIELDBUSES

P version

Q version

D version

X version

-L / -R / -G / -2G

COMMON FEATURES

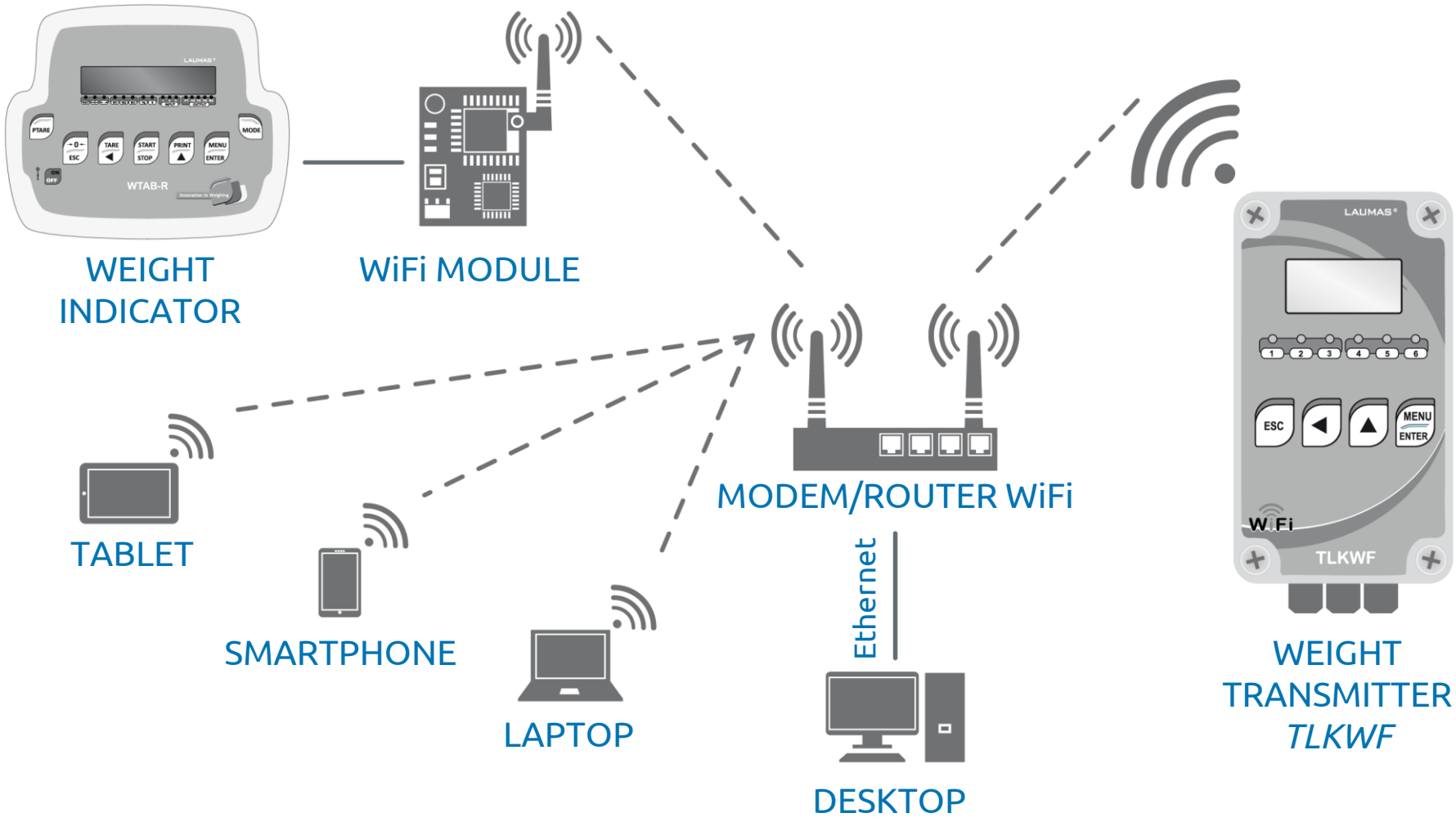
INSTALLATION

REAR PANEL

WiFi

CERTIFICATIONS

FIELDBUSES



-L / -R / -G / -2G

COMMON FEATURES

- INSTALLATION
- REAR PANEL
- WiFi
- CERTIFICATIONS
- FIELDBUSES

SERIES	OIML R76	cULus	EAC	NMI TRADE APPROVED	GOST	Ex	IECEx	EAC Ex	A3
	✓	✓	✓	✓	✓	✓	-	-	-
	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	-	-	-	-

-L / -R / -G / -2G

COMMON FEATURES

INSTALLATION

REAR PANEL

WiFi

CERTIFICATIONS

FIELDBUSES

Modbus-RTU

Modbus TCP/IP

DeviceNet

EtherNet/IP

PI CERTIFIED PROFIBUS • PROFINET

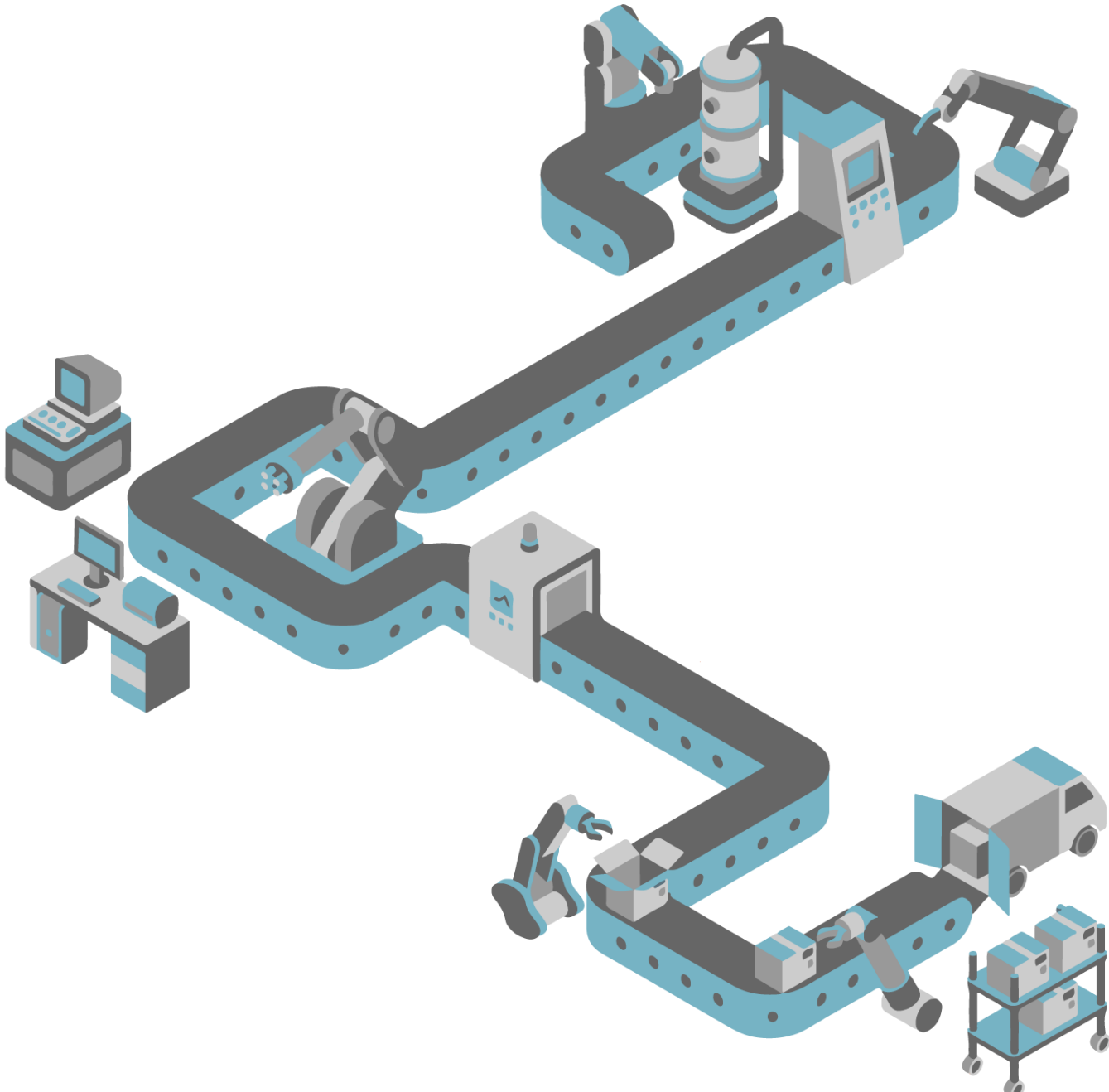
PROFIBUS

CANopen

ETHERNET TCP/IP

Wi Fi

ANALOG OUTPUT

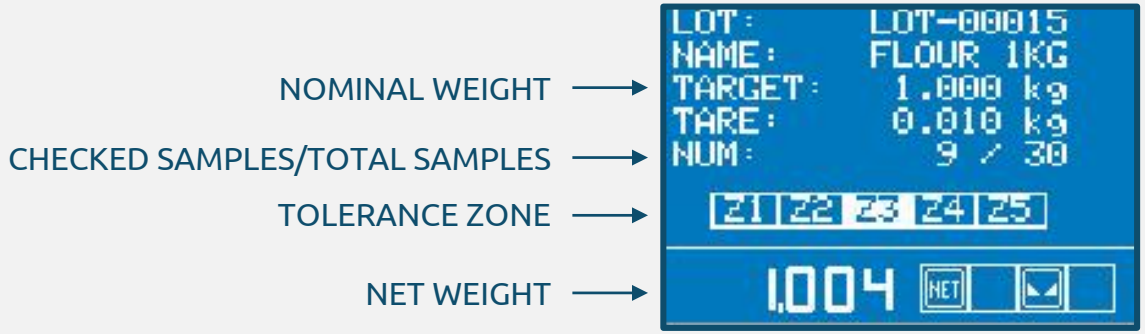


-G / -2G

ADVANCED FEATURES

WEIGHBRIDGE

- **Alphanumerical** keyboard
- **Multi-language**
- 99-item **database**
- OPZWUSB → **barcode reader + external keyboard**
- **External printer**
- Statistical control of **prepackages** (OIML R87)



WEIGHBRIDGE

CONNECTIONS

MAIN FEATURES

COMMON FEATURES

REAR PANEL

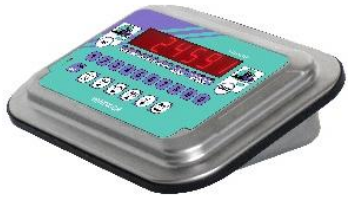
-BGE

PROG-WBRIDGE

UPCOMING

-BL

-BR



1x RS-232
2x RS-485
4x outputs
2x inputs

-BGE

•••

2x RS-232
2x RS-485
5x outputs
3x inputs
1x Ethernet TCP/IP port
2x USB port

WEIGHBRIDGE

CONNECTIONS

MAIN FEATURES

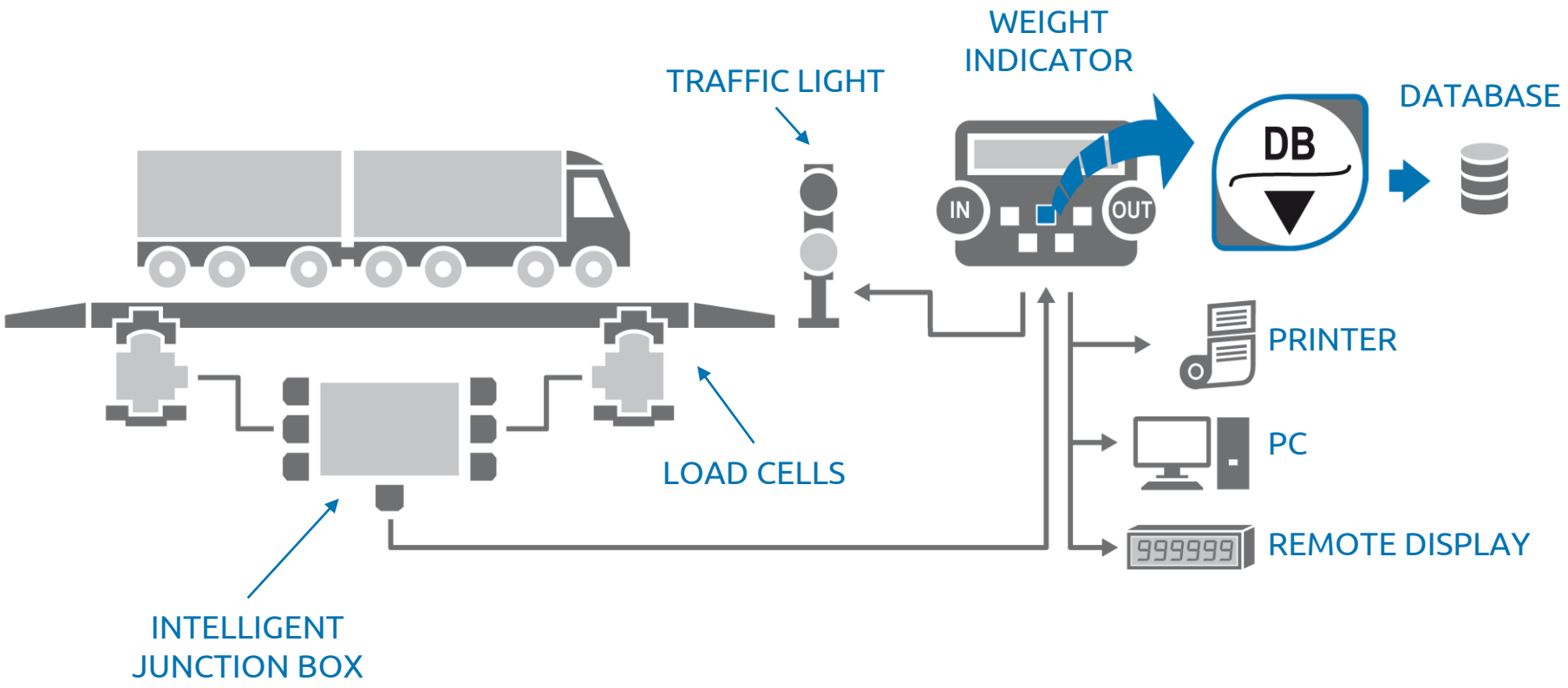
COMMON FEATURES

REAR PANEL

-BGE

PROG-WBRIDGE

UPCOMING



Modbus-RTU

- **Double, single and multiple weighing:** entry and/or exit, with trailer and multi-compartment trucks
- Open input weighings **archive** (max 254)
- **Database** for weighing data management
- **Alibi memory** to save weighing data
- **Traffic light** management via relay outputs
- **Totals management** (loaded and unloaded products)
- **External printers**
- **Customizable printouts**

CONNECTIONS
MAIN FEATURES
COMMON FEATURES
REAR PANEL
-BGE
PROG-WBRIDGE
UPCOMING

-BL / -BR
D version

-BGE
D version

•••

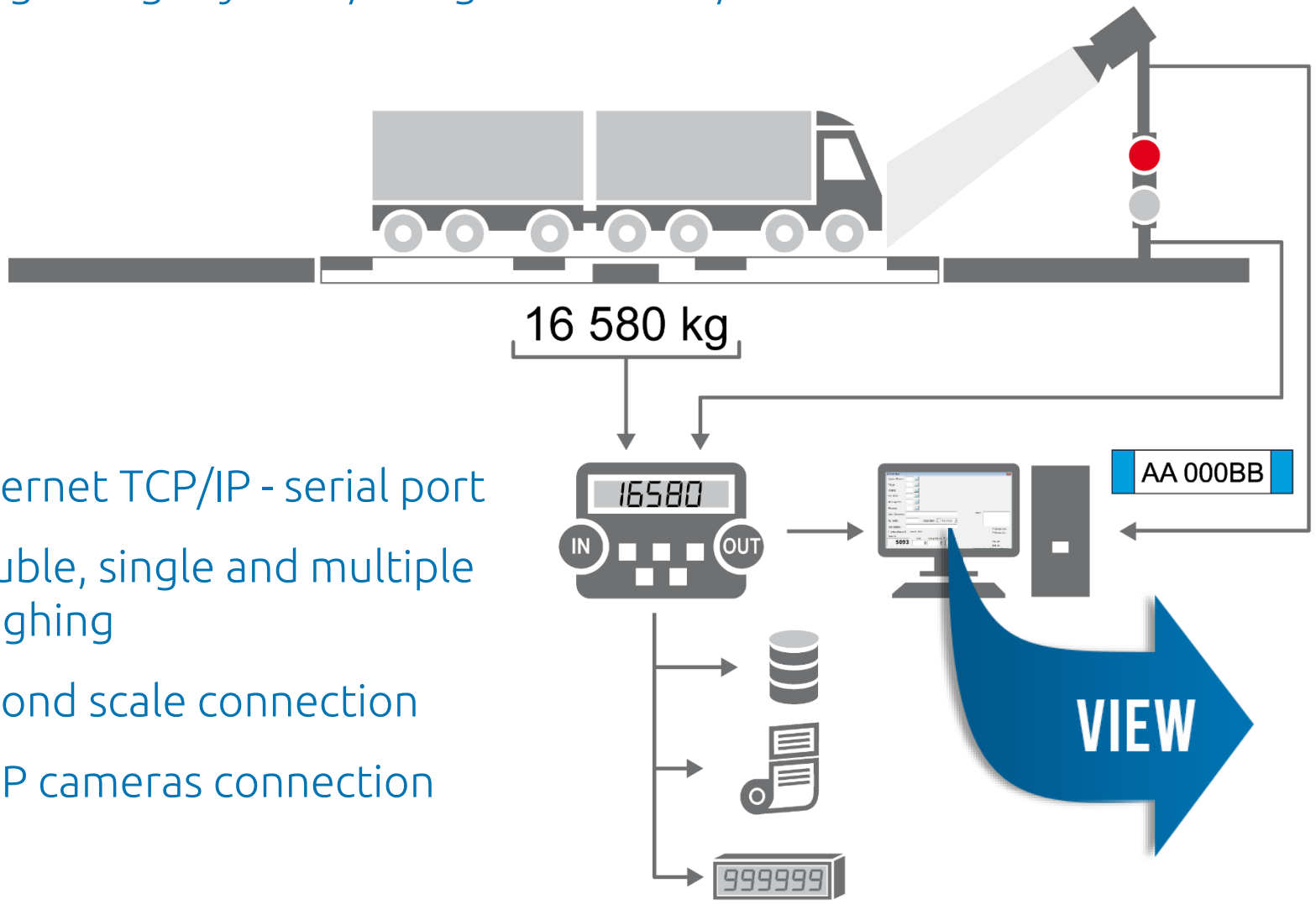
IP40 D-Sub desk version for any of the 3 indicators

- **500 vehicles** (license plates, preset tares)
- Products: **stocks** and **names database**
- Customers ID
- Operators
- Open weighings
- **Multi-language**
- **Barcode printing** (open weighing ID)
- **Remote display with traffic light** function →RIP6100IP65
- **Data transfer to USB** pen drive
- **TCP/IP** port

CONNECTIONS
MAIN FEATURES
COMMON FEATURES
REAR PANEL
-BGE
PROG-WBRIDGE
UPCOMING

Management software

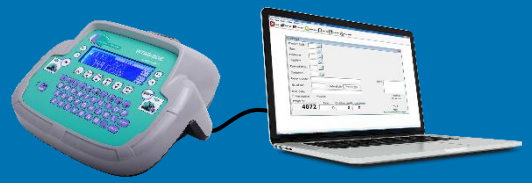
- Weighbridge system / Weight indicator / CLM8

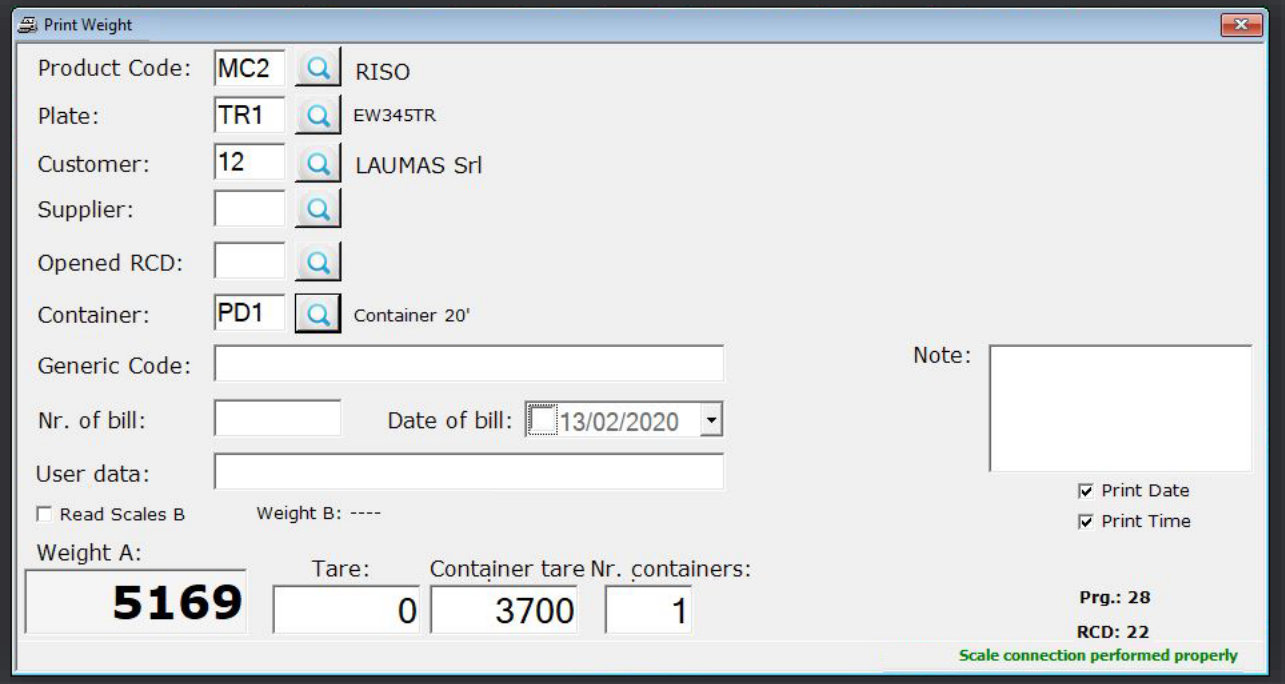


- Ethernet TCP/IP - serial port
- Double, single and multiple weighing
- Second scale connection
- 2x IP cameras connection

PROG-WBRIDGE

PC- software





- Multiple weighbridge management with common database
- Data backup on Alibi memory (approved devices)
- Printout adjustment (by Crystal Report software)

CONNECTIONS
MAIN FEATURES
COMMON FEATURES
REAR PANEL
-BGE
PROG-WBRIDGE
UPCOMING

Upcoming Developments

- Easier display reading
- Data base access shortcut
- Barcode to link plate number/product/customer/operator
- New connection to digital column load cells

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