AL WAZEN

Weighbridge
AWS Plug in Weigh Technology

Built to last in a tough environment
Proven reliability ,lower total cost of owner
ownership.

Digital Load Cell weight sensors
sealed to IP68.
Plug-and-Weigh™
Standard Sizes: 6.3m, 7.8m, 8.3m,
12.3m, 15.3m,
16.3m, 18.3m, 22.8m, 24.3m,
30.3m, 32.3m.
Other sizes to order

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Weighbridge
AWS Plug in Weigh Technology

The **AL WAZEN** weighbridge has been built to give high precision weighing.Vehicles can now be weighed precisely using Eagle Technology without compromise on the rugged build strength which makes these weigh bridges suitable for the heaviest usage.
The **AL WAZEN** weighbridge is made so that it can easily and quickly be installed in a prepared site. The sections are dropped onto weigh beams and locked into position. All cables are plug-in for quick fit. Factory calibrated. The weighbridge structure is only 340 mm deep. The strength of the **AL WAZEN** is in the heavy duty welded steel structure. High quality steel beams form the superstructure with a surface deck finished in steel chequer plate to provide a high strength non-skid platform of optimum rigidity. There are no wearing parts and all the electronics are sealed against the environment to ensure a long and trouble free life.The system is available with a wide choice of indicators and software which can be tailored to suit any particular application.

Weighbridge

AWS Plug in Weigh Technology

Weigh Beams made for easy assembly
Each weighbridge has a number of weigh beams which actually detect the weight on the platform. Built into each beam are two high precision load cells which are sealed with welded caps to ISO standard IP68. The robust design ensures a long working life and is maintenance free. The high reliability of the load cells means a lower total cost of ownership and we are able to offer a long warranty.

Choice of Models
The lengths can be from 4 metres up to 32 metres, with widths of 3.0, 3.5 and 4.0 metres available. All platforms 0.34 m height.
The weighbridge is fabricated in sections so that it is capable of being portable or in a fixed installation. All parts can be lifted with a forklift truck or small crane for ease of handling on site.The signal cables all come with connectors for ease of installation and the load cells are factory fitted to the load beams to reduce the cost of site preparation and installation. The platform sections are dropped onto the beams and locks hold them in position.

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Features
➡ Strong, Safe and Flexible
➡ Most Reliable, Flexible, High Strength
➡ Easy Bolt-Down Installation
➡ Outstanding Pretection
➡ Enables Easy tgrancportation
➡ Cost Effective Solution

Range

Model	Capacity	Platform Size	No. of L/C
AWS 6MAP	20000kg x 5kg	6 x 3 Meters	6
AWS 6M30	30000kg x 5kg	6 x 3 Meters	6
AWS12M60	60000kg x 10kg	12x3 Meters	8
AWS18M80	80000kg x 20kg	18x3 Meters	10
AWS18M100	100000kg x 20kg	18x3 Meters	10
AWS18M120	120000kg x 20kg	18x3 Meters	10

AL WAZEN Load cells

LAUMAS COK -50 TON LOAD CELLS

COMPRESSION COLUMN LOAD CELLS

➢ *ALLOY STEEL CONSTRUCTION*
➢ *COMBINED ERROR < +/- 0.02 %*
➢ *PROTECTION RATING IP 68*

TECHNICAL FEATURES

- *Rated output*
- *Temperature effect on zero*
- *Temperature effect on span*
- *Compensated temperature range*
- *Operating temperature range*
- *Creep at nominal load after 30 minutes*
- *Max supply voltage without damage*
- *Input resistance*
- *Output resistance*
- *Zero balance*
- *Insulation resistance*
- *Safe overload (% of full scale)*
- *Ultimate overload (% of full scale)*
- *Deflection at nominal load*

AL WAZEN

AMCELL

American Load cell
40 Tons

Fully sealed tool steel load cell
IP68 sealing, rugged construction
Ideal for road/ rail weigh bridges
Fully assembled ready to install
Complete with base, ball and top receptor

Shear Beam Load Cell

Duble Ended Shear Beam Load Cell

Specifications

Signal Output at Capacity	2±0.002 mV/V
Linearity Error	< 0.017% FSO
Non-Repeatability	< 0.020% FSO
Combined Error	< 0.020% FSO
Hysteresis	< 0.020% FSO
Creep/(30 mins.)	< 0.020% FSO
Zero Balance	< 1.5 % Capacity
Temperature Effect on Span(/10C)	< 0.014% FSO
Temperature Effect on Zero(/10C)	< 0.017% FSO
Compensated Temperature Range	-10 ~ 40 C
Operating Temperature Range	-35 ~ 65 C
Storage Temperature Range	-50 ~ 85 C
Service Load	100% Capacity
Safe Load	150% Capacity
Ultimate Load	300% Capacity
Input Resistance	700Ω ± 37Ω
Output Resistance	700Ω ± 7Ω
Insulation Resistance	> 5000 MΩ (@50 VDC)
Excitation Voltage(Rec)	5~12 V AC/DC
Excitation Voltage(Max.)	18 V AC/DC
Cable	12m
	4 core shielded
Material	Alloy Steel/Steel
Sealing	IP68 welded sealed

Cable Wiring: Excitation +ve = Red   Excitation -ve = Black   Signal +ve = Green   Signal -ve = White

Dimensions

Capacity	Order	A	B	C	D	E	F	G	H	J	K	L	Weight (kg)
10t	9010M010TWAXXX	80	125	30	50	88	11	18	195	100	135	240	14.2
20t	9010M020TWAXXX	80	125	30	76	88	11	18	225	100	135	240	16.1
25t	9010M025TWAXXX	80	125	30	76	88	11	18	225	100	135	240	16.1
30t	9010M030TWAXXX	80	125	30	76	88	11	18	225	100	135	240	16.1
40t	9010M040TWAXXX	80	125	30	76	88	11	18	225	100	135	240	16.1
50t	9010M050TWAXXX	124	160	40	82	98	11	21	261	124	160	340	24

NOTE: Load cell and mounting included in ready to install assembly.

INDICATOR

WDESK LIGHT

IP67 WEIGHT INDICATOR - 2 output (set point) 2 input)

OPTIONS ON REQUEST

- Stainless steel adjustable bracket for wall mounting
- ABS adjustable bracket for column mounting
- Indicator stainless steel stand (Ø 38 mm, h 700 mm) with
- stainless steel bracket for platform mounting
- Indicator stainless steel stand (Ø 38 mm, h 700 mm) with
- painted steel bracket for platform mounting . . . .
- Initial verification (Legal Metrology
- CALIBRATION of the weight indicator linked together with
- platform, SIT TRACEABILITY certificate included
- Alibi memory
- Power supply with internal rechargeable 12V 2.2Ah battery
- non-removable (20-hour operating time)

Desk version with 115/230VAC power supply

Column mounting

STANDARD

Wall mounting (can be used also for desk

INDICATOR

WDESK LIGHT

IP67 WEIGHT INDICATOR - 2 output (set point) 2 input

- ABS weight Indicator (dimensions: 122 x 226 x 164 mm) with 6 PG9 cable
- glands, IP67 protection rating. Desk standard version; optional: wall / column
- mounting. Six-digit backlit LCD semi alphanumeric display (20 mm h), 7
- segment; 46 signaling LED. Six-key membrane keyboard with buzzer. Real time
- clock with buffer battery. Switching power supply plug 24V 450mA, input
- 100-240 VAC, 3 meters long cable (included).
- Two serial ports (RS232 and RS485) for connection to:
- PC/PLC up to 32 instruments (max 99 with line repeaters)
- protocol (compatible with W60000) or Mod Bus RTU.
- Remote display.
- Printer and/or RD data recorder.

THE ORETICAL CALIBRATION is performed via the keyboard.
 REAL CALIBRATION with linearization up to 5 points.

COLONNAM+STAFFA

POWER SUPPLY (included)

STAFFAINOXWDESK

STAFFAWDESK

AL WAZEN

INDICATOR

WDESK LIGHT

IP67 WEIGHT INDICATOR - 2 output (set point) 2 input

TECHNICAL FEATURES:

- NUMBER OF LOAD CELLS IN PARALLEL and SUPPLY
- LINEARITY
- THERMAL DRIFT
- A/D CONVERTER
- MAX DIVISIONS (with measure range: +/- 10mV =2mV/V)
- MEASURE RANGE
- MAX LOAD CELL'S SENSITIVITY
- MAX CONVERSIONS PER SECOND
- DISPLAY RANGE
- DECIMALS / DISPLAY INCREMENTS
- DIGITAL FILTER / CONVERSION RATE
- LOGIC OUTPUTS (relays)
- LOGIC INPUTS
- SERIAL PORTS
- BAUD RATE
- HUMIDITY (condensate free)
- STORAGE TEMPERATURE
- WORKING TEMPERATURE
  WORKING TEMPERATURE (CE-M APPROVED)

AL WAZEN *INDICATOR*

W-DESK LIGHT

IP67 WEIGHT INDICATOR - 2 output (setpoint) 2 input

Main functions

- 2 setpoints confi gurable as normally open or normally closed. The operator can decide the setpoints activation for the net weight value, gross weight value, otherwise for positive weights or for positive and negative weights.
- Counting.
- Totalizing.
- Setting of hysteresis value for each setpoint.
- Peak holder displaying by closing the Peak contact.
- Net/Gross function by keyboard or external contact.
- Manual adjustment of zero value in case of zero-setting not possible.
- Auto zero function.
- Auto zero-tracking function.
- Print of the weight via keyboard or external contact with date and time.

Operation: The inputs can work as: net/gross weight, zero-setting, peak, print or can be remotely read via protocol.
The outputs can works as setpoints or can be remotely switched via protocol.

Weight transmitter approved OIML R61 (Automatic Gravimetric Filling Instruments) according to WELMEC Guide 8.8:2011 (MID).
CE- M approvable EN45501-2009/23/EC-OIML R76:2006

 -Maximum number of verifi cation scale intervals n=10000
- Minimum input-voltage per VSI 0.2 μV
- Weighing range single range or multi range (max 3) or multi interval (max 3)
- Calibration via keyboard is protected through seals for the access to a setting jumper or installer password
- Semi-automatic zero and tare, predetermined tare funcions.
- Weight subdivisions displaying (1/10 e)
- The following values can be printed from external contact: net/gross weight; tare; predetermined tare; date; time; ID code (if alibi memory is present

AL WAZEN
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FOR ALL YOUR WEIGHING NEEDS
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AL WAZEN
Truck Scale

Easy Installation

Installation
The Al Wazen weighbridge can either be mounted above the ground with ramps at each end, or in a shallow pit making the surface flush with the roadway. Above ground installation is simpler and eliminates the need to construct a pit and a drain. Ramps can be cast in concrete or delivered with the weighbridge in steel. The above ground models only need a very simple concrete foundation under each load cell which keeps the overall site costs to a minimum. However, pit mounting allows easier access and can make better use of yard space.

Our civil engineering team are able to provide a complete turn-key package if required; undertaking all aspects of site preparation, concrete foundations, installation and commissioning

Simple construction on site
The Al Wazen weighbridge is easy to install. Only a standard forklift truck is required on site to place the components in position and lock the sections in place. Each section is easily lifted with a standard fork truck.No special tools are needed to install the weighbridge and the whole unit can be up and running within a few hours of delivery.
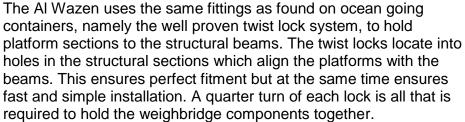
Truck Scale
Easy Installation

Twist Lock fixings

The Al Wazen uses the same fittings as found on ocean going containers, namely the well proven twist lock system, to hold platform sections to the structural beams. The twist locks locate into holes in the structural sections which align the platforms with the beams. This ensures perfect fitment but at the same time ensures fast and simple installation. A quarter turn of each lock is all that is required to hold the weighbridge components together.

After assembly the load cell feet are bolted to the foundation. This is easily achieved because locations within the structure allow a drill to access the load cell feet and foundation without disturbing the platform position.

Once the weighbridge is assembled plug in the cables to the computer and power supply and switch on. Full instructions are provided.

Recording Equipment

A choice of indicators is available depending on which options are selected for use with the weighbridge. The simplest system is a standard model 2100 indicator with a printout on a tally roll or a four part ticket. The model WDESK-LIGHT allows input of number plates and tare weights so that a print will give tare, gross and nett weights together with date and time and unique ticket number

Computer Program

Both indicators can be connected directly to a PC computer with full database EAGLE™ software. This is the normal option for today's weighbridges. The computer gives the operator a full database system with the ability to record the details at the time of weighing and hence allows detailed reports to be made or print outs of invoices and lists of all transactions and vehicles for a particular customer. Software is also available for recording and detailing of overloading. There are several programs available for different industries from grain storage systems to recycling enterprises. All the software is configurable to suit individual business needs using our own in-house software engineers at very little extra cost to a standard package.

AL WAZEN

AWS Technology
Brings WeighBridgeSoftware
Ultimate Solution In Weighing Ticket

Weigh Bridge 9.0

Weigh Ticket

Report Format

Software features

- Direct interface of Weighing Scale To Computer
- User friendly operation
- Window based software
- Highly secure and customizable password protected
- Master updating facility
- Enables customer to manage the Weigh Bridge.
- More than 1,00,000 customers
- Used for weighed and non weighed items
- Large screen weight display
- User selectable Weigh Ticket Design

  Facilitate to view the records of the Reports.
- Allows you to rename the fields.
- Trouble free and easy to operate

- **Reports**
- Vehicle wise Weigh Ticket Report
- Supplier Wise Weigh Ticket Report
- Material Wise Weigh Ticket Report
- General Weigh Ticket Report
- Remarks Wise Weigh Ticket Report
- Deleted Weigh Ticket Report`

- **Scope of Supply**
- Electronic weighing Bridge Indicator.
- RS 232 communication Interface with
- Required cables
- CD With Weigh Bridge 9.0 software

Printers

There are three printers available for use with the standard indicators. If a computer is used then tickets can be printed direct from the computer software.

The basic printout is on a tally roll, with extra copies being available by pressing the print again. For a more sophisticated ticket we supply a four part ticket printer which takes pre-printed tickets which have your name and address on them. This is useful if a number of personnel need a ticket each time the weighbridge is used.

Externally a tally roll printer is available which is housed in a weather proof enclosure so that a driver can take a ticket without getting out of the vehicle. This is particularly useful for unmanned weighbridge installations

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AL WAZEN

Weighbridge
Specifications

General Specifications
Load cells size to suit, Sealed to IP68
Platform Durbar steel plate surface, steel construction
Maximum Capacity: 30 t 40 t, 50 t, 60 t, 80 t, 100 t, or 120 tonnes
Maximum strength: 120 tonnes
Graduation: 10 kg, 20 kg or 50kg, depending on model
Sensitivity 10 kg
Zero tracking plus/minus 5 kg
Accuracy 1 part in 5000.
Construction Steel platform on load cells, concrete base works
Operation Internal rechargeable battery or mains supply.
Electronics: Microprocessor weigh controller sealed to IP68.
Power required 110/230 volts AC, or 12 volt battery.

Environmental specification
Temperature range: minus 30 degrees C to plus 70 degrees C.
Protection: Load cells are protected against ingress of water,
fertilizer, petroleum products, and attacks of acid mists. IP68
Weighbridge surface painted in marine weatherproof paints
Al Wazen power supply unit in waterproof housing
Indicator weatherproof housing
Printer Desktop or weatherproof outdoor tally roll
Computer not rated
Humidity range: Weighbridge: 10 to 100 percent RH
Indicator/printer unit: 10 to 98% RH
Dust: Weighbridge: 100 percent protection
Indicator/printer unit 100%
Computer not rated

Warranty
18 months from date of shipment any part returned to our works at
customer's expense will be repaired or replaced and returned to
sender free of charge