



LOAD CELL/WEIGH MODULE /ACCESSORIES INSTRUMENTATION FOR WEIGHT & FORCE MEASUREMENT



Sensotech



Sensomatic Transducers are Designed, Researched & Developed in Sweden. They are manufactured in india in state-of-art plant located at Phursungi. All the products meets stringent International standards in terms of quality, consistency and delivery. All the products undergo accelerated fatigue testing to meet the specifications, for prolonged period. This testing process ensures the reliability of the product under cyclic / high dynamic applications & eliminates premature failure of the transducer.

The Transducers are designed to meet OIML/NTEP standards for high accuracy force / weight measurement application & are ruggedly built to perform in hostile industrial environment.

Sensomatic specalises in design & development of custom built transducers for a wide spectrum of core segment of industries and applications.

We at Sensomatic are committed to manufuture high precision products with consistent quality & timely delivery.





MODEL: ASP-TT

The Aluminum Load Cell Model ASP-TT, is a Low profile single point load cell designed for Retail scales & other R&D applications. Capacity Range (in kgf): 3 /5/ 6 /10 /20 /30 /40/ 80



MODEL: ASL

The Aluminum Single point load cell .Model ASL is a medium capacity load cell for Platform Scales / Over Head Track Scale Special application.

Capacity Range (in kgf): 50 & 100 kgf



MODEL: ASP-JL

The Aluminum Single Point Load Cell Model ASP-JL a High Accuracy load cell for Laboratory scales & High Precision Scales.

Capacity Range (in grams): 300/600



MODEL:SSP-PF-S

The Steel Single point load cell Model SSP-PF-S is a low profile, off-center load cell designed for use in commercial & Platform scale applications.

Capacity Range (in kgf): 50 /100 /200 /250 /300 / 400 /500



MODEL: SSP-PF-L

The Steel Single Point load cell is manufactured from high quality alloy steel and ENP plated to proctect against rust and is sealed to IP67 standard

Capacity Range)in kgf): 100/200/300/500/750/1000



MODEL:SSP-PF-J

The Steel Single point load cell SSP-PF-J is sealed to IP67 standard.

This Load Cell is designed for large platform scales & concrete batchig machines. They are desinged to with stand High Impact Loading & are manufactured from High Nickel Alloy Steel.

Capacity Range (in kgf): 1500/2000





Miniature S Type load cell Model SB-mini, is a compact Loadcell for Special applications.

Capacity Range (in kgf): 10 / 25/50/100



MODEL: SB-S

The S type load cell Model SB-S is suitable for tension and compression application. This Load cell is designed for High Precision Weight and Force measurement applications.

Capacity Range (in kgf): 11/15/25/50/100/150/200/250/350/500/750/900 Capacity Range (in tf): 1/1.1/1.2/1.5/1.8/2/2.2/2.5



MODEL: SB

The S type load cell Model SB is suitable for tension and compression application. This Load cell is designed for High Precision Weight and Force measurement applications.

Capacity Range (in kgf): 3.5 /5 /7 /10 / 11.5



MODEL: BT-MINI

This is Compact Loadcell, is suitable for Universal application & is available only in Stainless Steel Version (both Tension & Compression mode), Suitable for Press Fit System & Special Purpose Machine.

Capacity Range (in kgf): 500 /1000 kgf



MODEL: BT-Sub mini

This is Ultra Compact Loadcell, is suitable for Universal (both Tension & Compression mode) application & is available in Stainless Steel Version also. mode), Suitable for Press Fit System & Special Purpose Machine.

Capacity Range (in kgf): 50/100/200 kgf





MODEL: DESB-S

The Uni-link Loadcell is versatile for use in both Dynamic (Truck / in-motion weighing) & static application (Tank & Silo weighing using Rigid mount assembly). The load cell is manufactured from High Nickel Alloy Steel with In-built Lightning Protection & Sealed to IP68 standard.

Capacity Range (in tf): 4.5 /5 /10 /11.5 / 18/20



MODEL: DESB-R

The Uni-link Loadcell is versatile for use in both Dynamic(Truck / in-motion weighing) & static application (Tank & Silo weighing using Rigid mount assembly). The load cell is manufactured from high nickel alloy steel with In-builtLightning Protection & Sealed to IP68 standard.

Capacity Range (in tf): 22.5 /30 /34 /45 /56.5 /75 /100



MODEL: DESB-RIM

This load cell is designed for Rail in Motion (RIM) & On Board weighing application. The Load cell design configuration ensure that the output of the load cell is insensitive to eccentric load. Capacity Range (in tf): 15 / 20 / 25



MODEL: DESB-TPR

The Load cell is versatile for use in Truck / Tipper On-Board Weighing application. The load cell is manufactured from High Nickel Alloy steel with In-built Lightning Protection & Sealed to IP68 standard. No additional mounting hardware is required. Capacity Range (in tf): 15/20



MODEL: DESB-T

They are specifically designed for Tank / Silo weighing application & the mounting is designed for thermal expansion & contraction of vessel. The load cell is manufactured from High Nickel Alloy Steel with In-built Lightning Protection & Sealed to IP68 standard.

Capacity Range (in kgf): 450 /750 /900 / 1350 Capacity Range (in tf): 2.25 /5 /11.5 /15 /20 /27





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MODEL: DESB-BL (Without Assembly)

The load cell is designed for Truck Scale applications. The load cell is manufactured from HighAlloy steel with In-built Lightning Protection optional & Sealed to IP68 standard.

Capacity Range (in tf): 10 /20 / 30/40



MODEL: DESB-RTM (Multi Rope)

This Rope Tension load cell is ideal for tension measurement of multi ropes used in Cranes & other Mooring Applications. This is a non-invasive method of measurement, where the device is fitted after Installation of the Machine & is easy to handle.

Capacity Range (in kgf): 450/2250



MODEL: SESB-RTM (Single / Multi Rope)

This Rope Tension load cell is ideal for tension measurement on rope used in Cranes & other Mooring Applications.

Capacity Range (in tf):) 0.5 /1/1.5/1.8/2/2/2.5/3.5/5 tf.



MODEL: DS

This Elevator Overload Sensor Model DS, is used in Passenger Elevators under the cabin. This is made of High Nickel Alloy Steel & designed for high Impact load. to be used as Single or multi-cell application. Capacity Range (in kgf): 450



MODEL: EL-C

This Elevator Overload Sensor Model EL-C, is used in Passenger & Goods Elevators inside the cabin. This can be used inside the small trucks for on-board weighing application. This load cell comes with an anti vibration rubber pad mounting & this provides dampening effect. Capacity Range (in kgf): 800





MODEL: HSSP

We have designed this special load cell Model HSSP for High Speed dynamic application for the packaging industry. This Triple Beam Design has low deflection & faster response time.

Capacity Range (in kgf): 4.5/7/11/15/22.5/45



MODEL: CRN-S

This Crane Load cell Model CRN-S is unique. Monolith construction, with mechanical self-locking protection to prevent overload.

This Load Cell is rugged & suitable for high temperature applications.

Capacity Range (in kgf): 500

Capacity Range (in tf): 1/2/3/5



MODEL: CRN-L

This High Capacity Crane Load cell Model CRN-L is unique Monolith construction with mechanical self - locking protection to prevent overload. This Load Cell is rugged & suitable for high temperature applications.

Capacity Range (in tf): 7.5 /10 /15 /20 /25





MODEL: CMP

The Compression load cell Model CMP is about Monolith Construction and is made from High Nickel Alloy Steel. The load cell is suitable for robust design & due to its unique construction in design, this allows angular loading without affecting the accuracy. The load cell is sealed to the IP68 standard.

Capacity Range (in tf): 20 / 25 / 30 / 40



MODEL: CMP-CC

This is a Universal Loadcell (for use in both Tension & Compression Mode)

This is compact & is suitable for Testing Machine & Special Purpose machine.

Capacity Range (in kgf): 500/750 /900 kgf

Capacity Range (in tf):): 1 /1.1 /1.5 /1.8 /2 / 2.5





MODEL: BTN

The Button type load cell Model BTN is designed for compression application where space is limited. This load cell is constructed from High Nickle alloy steel for use in level measurement application in Tank & Silo.

Capacity Range (in kgf):500

Capacity Range (in tf): 2/3/5/10/20/30



The Button type Load Cell Model BTS is designed for compression application where space is limited. This load cell is constructed from High Nickle Alloy Steel for use in level measurement application in Tank & Silo.

Capacity Range (in tf): 45/50





MODEL: BEAM SENSOR (BS)

This Load Cell Model BS, is used for measuring beam deflection & is used in multiple indoor & outdoor applications. This is a Bolt-On Sensor & is easy to install.

(Infinite Capacity).



MODEL: BBM - S

The BBM-S Bending Beam Load Cells are among the most widely used sensors in the field of weighing technology. The load cells are manufactured from alloy steel, nickel plated and characterized with high accuracy and linearity.

Capacity Range (in kgf): 20/30/40/50/70 kgf



MODEL: BBM -L

The BBM-L Bending Beam Load Cells are desinged for medium capacity weighing applications. The load cells are manufactured from High Alloy Steel.

Capacity Range (in kgf): 100/ 150/ 200/ 300/

400/500/700/1000





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MODEL: SSP-PF-SLK

The Steel single point load cell Model SSP-PF-SLK is a low profile, off-centre load cell designed for use in health kiosk / low profile scales. Capacity Range (in Kgf): 50/100/200/250/300/400



MODEL: SSP-TT

This Steel Load cell is specially designed for Packing & Vending Machine where Precision & Durability is the prime requirement due to dynamic operation.

Capacity Range (in kgf): 10/20/40/60



MODEL: (SESB-1)

The Single Ended Shear Beam load cell Model SESB is designed for process weighing applications. This load cell is rugged & sealed to IP67 standard (IP68 is optional) & robust in construction, suitable for harsh Industrial applications & floor scales.

Capacity Range (in kgf): 50/100 /200/250/300



MODEL: (SESB-2)

The Single Ended Shear Beam load cell Model SESB is designed for process weighing applications. This load cell is rugged & sealed to IP67 standard (IP68 is optional) & robust in construction, suitable for harsh Industrial applications & floor scales.

Capacity Range (in tf): 0.5/ 1 /1.1/1.5 /1.8 /2

/2.25 /2.5 /3.5 /5 /7 / 11.5



MODEL: SHP

The Shear pin load cell Model SHP is a special direction sensitive load cell designed to with stand high impact loading, the low profile load cell is designed for use in various crane / On-board truck weighing applications.

Capacity Range (in tf): 2 /3 /5 /10 /15/20/30/40





MODEL: DESB-CR

This loadcell is build for Rughed Dynamic application. The Loadcell is made of High Nickel Tool steel, to with stand High Impact Loadcell. This is deal on board weighing System & other In -motion application. Capacity Range (in tf): 5/10/15/20/25



MODEL: DESR

This Low Profile Double Ended Shear Beam Load Cell Model DESR is manufactured from High Nickel Alloy Steel with In-built Lightning Protection & Sealed to IP68 standard. The Loadcell is versatile for use in both Dynamic (in-motion weighing) & static application.

Capacity Range (in tf): 5 /7.5 /10 /15 / 20



MODEL: DESR-PWB

The Loadcell is versatile for use in Static application.

Capacity Range (in tf): 20



MODEL: DESB-BL

The Double Ended Shear Beam Ball type loadcell Model DESB-BL, is desinged for Truck Scale application. The loadcell is manufactured from High Nickel Alloy Stell with-in lighting protection & Scaled to IP68 standard.

Capacity Range: (in tf) 10/20/30/40

(Customized Capacity)



MODEL: DESB-BL-P

The Double Ended Shear Beam Ball type load cell Model DESB-BL, is designed for Truck Scale applications. This unique design allows controlled flotation of the deck structure. The load cell is sealed to IP 68 standard & is made of High Nickel Alloy Steel with an In-built Lightning Protection circuit.

Capacity Range (in tf): 10/20/30/40





MODEL: CMP-SP

The Compression load cell Model CMP is a Monolith Construction and is made from high nickel alloy steel. The load cell is manufactured from High Nickel Alloy steel with In-built Lightning Protection & Sealed to IP68 standard. The Mounting can be designed as per your specification for various applications, including Tank / Silo weighing. Capacity Range (in tf): 20 /25 /30 / 40



MODEL: UNV-C

This Ultra High accuracy load cell Model UNV-C is High Fatigue Rated & designed from High Nickel alloy steel construction for withstanding Impact & dynamic load.

Capacity Range (in kgf): 200/300/500

Capacity Range (in tf): 1 /2 /3 /5 /10 /15 /20/ 25 /30 /50 /75 /100 /200 / 300



MODEL: UNV

This Ultra High accuracy Universal Loadcell Model UNV is High Fatigue
Rated & designed from High Nickel Alloy Steel construction for
withstanding Impact Load. Ideally Suitable for Dynamic application
& can be used for various application in both Compression & Tension mode.
Capacity Range (in kgf): 500

Capacity Range (in tf): 5 /10 /15 /20 /25/ 30 / 50 /7 5 /100 /200 / 300



MODEL:TSN

This load cell Model TSN is a compact tension load cell for use in Crane

/ Mooring applications. Sealed to IP68 standard & constructed with High

Nickel Tool Steel with ENP available in Wireless configuration with

Jumbo Display.

Capacity Range (in kgf): 500

Capacity Range (in tf): 1 /2 /3 /5 /7.5 /10/15 /20 / 30



MODEL: MBS

The Motor Bed Sensor is made up of highnickel alloy steel. The load cell is used as multi cell (4/6) Under the elevator motorin the head room.

Capacity Range (in kgf): 2000/4000





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This is designed for over protection in craddel platform scales used in high rise building (comes with controller)

Capacity:(in kg) 500/1000



MODEL: DESB-SKP

The Load cell is versatile for use in Truck/Tipper On-Board Weighing application. The load cell is manufactured from High Nickel Alloy Steel with In-built Lightning Protection & Sealed to IP68 standard. No additional mounting hardware is required.

Capacity Range (in tf): 15/20



MODEL: SHP-CR

The Shear load cell Model SHP-CR is a special direction sensitive Loadcell Designed to withstand High impact Loading, The low profile Loadcell is designed for use in various crane/On-board truck weighing application.



WIRING SCHEMATIC:

COLOUR CODE	CONNECTION
RED	EXCITATION(+)
BLACK	EXCITATION (-)
GREEN	OUTPUT (+)
WHITE	OUTPUT (-)
SHIELD	GROUND

Optional Feature:

Explosion Proof Version suitable for Group I, IIA, IIB, IIC & meets
Temperature Class T4 is available for the following modles:

SSP-PF-S DESB-S/R
SSP-PF-L DESB-BL
SSP-PF-J CMP
SB-S DESR
SESB HSSP



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UNV-C Bin Mount Assembly

This Weigh Module has lift-off protection & Self jacking arrangement, with self-aligning load button. This is ideal for Bin/Tank Weighing application.



This Tank Mount Assembly has lift-off protection & Self jacking arrangement with Mechanical over load protection This is ideal for Tank /Silo Weighing application.



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DESB- SILO WEIGHING

The Tank Weighing assembly is a fully configured weighing assembly ideal for use in Tanks/ Silos and hopper weighing system.

The assembly is designed for thermal Expansion & contraction of system.

SESB- HOPPER MOUNT ASSEMBLY

The Mounting is a self - aligning to the Load Button on top of the Load cell at loading Point.

This Assembly comes with Lift -off protection & self-Jacking arrangment. Ideal for Tank/ Hopper. Insensitive to lateral loads.





SESB-TANK MOUNT ASSEMBLY

The Mounting is a self - aligning to the Load Button on top of the Load cell at loading Point. This Assembly comes with Lift -off protection & self-Jacking arrangment with mechanical overload protection Ideal for Tank/Hopper.

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DESB- T LADDLE MOUNT ASSEMBLY

The DESB-T Ladddle weighing Assembly ideal for use in Laddle Weighing application. The assembly is designed for Thermal Expansion & contracton of system.



SESB-FOOT MOUNT ASSEMBLY

This is a simple and Versatile Mounting which has rubber base to dampen vibration and also has self aligning capability. This is used in conveyor/ platform scale.



BBM - CONVEYOR MOUNT

The mounting is desinged for conveyor and Bin Scale This has mechanical over load protection. Using elastomer material, the mounting can be made vibration free.



This is a compact module designed for suitable for Conveyor/Tank Hopper weighing application.





SESB - SILO MOUNT ASSEMBLY

The Mounting is a self aligning and insensitive to eccentric load. This Assembly is sutiable for Tank/Hopper this can with stand vibration and

is designed for Thermal Expansion and Contraction.



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MODEL: CMP-HOPPER MOUNT ASSEMBLY

The medium capacity Low Profile CMP Weigh module comes in Pre-stressed condition with Lift-off Protection and Self-Jacking arrangment. This has been designed for Tank/Silo weighing application where the Vibrations Levels are slightly high.



The Rigid Mount Assembly is designed for loadcell model-DESB this has lift-off protection and can be provided with mechanical proction. This moudule is deal for tank /silo weighing application.



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DESB-LOW PROFILE MOUNTING

The Low Profile Rigid Mount Assembly is ideal for Static & Dynamic Application.

This is Ideal for Tank/Silo & In-motion weighing system. This is designed for all low capacity DESB models.



The Low Profile Rigid Mount Assembly is Ideal for Static & Dynamic Application. This is Ideal for Tank/Silo & weighing This is designed for all DESB models.





DESB-T TANK MOUNT ASSEMBLY

The DESB-TTANK Weighing Assembly is a fully configured weighing assembly ideal for use on tanks, silos and hopper weighing systems. The assembly is designed for Thermal Expansion and contraction of system.



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DESB-TRUCK ASSEMBLY

This Truck Scale Assembly is Uni-Link Assembly, which allows Controlled Flotation of Deck and eliminates eccentric & lateral load, thereby eliminating the use of Stay-Rods.

CMP SILO MOUNT ASSEMBLY

The CMP weigh module comes in pre-stressed condition with Lift-off protection and Self- Jacking arrangment. This has been designed for Tank / Silo weighing application where the Vibration Levels are slightly high.



Vehicle Weighing System



Available in Wired and Wireless configuration in Portal Carry case





Model: SDI 910 (Advanced)

With advanced features and filters

Power Supply: 24 VDC

Output: 4-20 mA (or) 0-10 VDC

Communication: RS 232 (or) RS 485

Display: 6-digit, 7-segment, LED, RED, 14mm

Set point: 2/3 set point with potentional relay contact

Sampling Speed: 120/480/960/ samples/sec (selectable)

Calibration: 2/8 point calibration/ menu driven

Fixture Panel Mount

Material: Aluminium enclosure



Model: SENSO -4/6/8/10 Channel Summing Box

(Available in ABS & MS Enclosure)

Junction Box(es), also often known as summing box, are used in multi-load cell installations. Junction boxes are capable of corner adjustments for precision weighing. Surge arrestors are used to prevent power spikes and are commonly used in outdoor installations that may be subject to lightning strikes to reduce potentially damaging effects.



Model: SENSO-USB Interface

Power Supply 5 VDC ±0.5% [USB]

ADC type Delta - sigma, 24-bit

Conversion rate 40 SPS-100SPS

Analogue input range 19.5±V bipolar

(3.9m V/V @ 5VDC excitation)

Internal resolution Approx. 16,000,000

Least response input step 0.29±V

Excitation 5 VDC

(max 4 load cell of 350 ohms)

Software Customized software

Load cell interface 4-Wire technolog

Dimension 140 X 66.5 x 28 mm



Model: SENSO - SS Summing Box

Junction Box(es), also often known as summing box, are used in multi-load cell installations.

Junction boxes are capable of corner adjustments for precision weighing. Surge arrestors are used to prevent power spikes and are commonly used in outdoor installations that may be subject to lightning strikes to reduce potentially damaging effects.





Model: SENSO - FLP Indicator

All the indicators can be enclosed in Flame Proof enclosure with/without Zener barrier.



ELECTRICAL: PERFORMANCE:

Voltage : 24VDC

Exicatation : 10VDC

No. of Cells : 8 of 350

Full Scale Range :100mV bi-polar

Conversion Bandwidth: 10KHz

Non-linearity : 0.03% of FSR

ANALOG OUTPUT: 4-20mA /0-10Vdc /±10 Vdc (optional)

ENVIRONMENTAL: Operating Temperature:-10 C to +45 C (14 F to 104 F)

ENCLOSURE: Material: Heavy Duty ABS

Mounting: Din-rail mount



Model: SENSO - FLP Summing Box

(Available in 4/6/8/10/12 channel) with brass glands All the indicators can be enclosed in Flame Proof enclosure with/without Zener barrier.



MODEL: SENSO - AMP

The Signal transmitter is designed for static or dynamic weighing, force and pressure measurement

processes to provide fast and accurate data transmission, easy to calibrate & is DIN Rail

mounting type

Power Supply: 24 VDC

Analog Output: 4-20 mA (or) 0-10 VDC

Fixture: DIN RAIL Mount.

Application: Universal







MODEL: SENSO - WT-PP

Display: 5 digit / 7 Segment LED display / Tactile Keys

Power supply: 24VDC

A/D converter: Internal 20 bit, External 16 bit resolution

Conversion rate: 10 Samples/sec

Load cells: Excitation 5VDC (Drives 4 load cells of 350 ohms)

Dimension: DIN STD 48*96mm, Depth-122mm

Panel Cutout: 45*92mm

Application: ProcessWeighing & Automation

A) WTPP-10N

Analog output: 0-10 VDC or 4-20 ma

Serial Communication: RS232/RS485

B) WTPP-10D

Analog output: 0-10 VDC or 4-20 ma

Serial Communication: RS 232/RS485

Digital Input: 2 Input High Logic (5-24 VDC)

Digital Output: 2 Output Potential Free Contact (24VDC/1A)





MODEL: SENSO - C8

Display: 6 digits, 7 segment, LED / Tactile Keys

Input Power Supply: 230 VAC

Communication: RS 422 / RS 232

Analog Output: 4-20 mA (or) 0-10 VDC

Set point: 3 Set point with Potential free relay contacts

Peak Hold: Peak Value Monitoring

Dimension: Outer: 144mm(W) X 96 mm (H) X 90mm (D)

Sampling speed: 80 Samples / Sec

Fixture Panel Mount

Application: Tank Weighing Batching / Platform

/ Press Fit Machine/Check Weigher

MODEL: SENSO-MO

Display: 6 digits, 7 segment, LED / Tactile Keys

Input Power Supply: 24 VDC

Communication: RS 485 / RS 232,

Analog Output: 4-20 mA (or) 0-10VDC

Set point: 2 set-point with Potential Free Relay Contacts

Dimension: Outer: 96mm(W) X 48 mm (H) X 80mm (D)

Sampling Speed: 120/480/960 Samples/sec (Selectable)

Fixture: Panel Mountable

Application: Process Weighing







Model: SENSO - TP-MINI

Power Supply: 24 VDC

Display: 6-digit / 7 segment LED

Dimension: Outer-20mm (w)* 80mm(h) *200mm(d)

Fixture: Panel Mount

Application: Tank Weighing / Process Weighing



Model: SENSO -A12

This Indicator has a Large LED Display with Rs

232 communication & Battery Backup

Display: 6-digit / 7 segment LED, Tactile keys

Powersupply: 230 VAC

Accuracy: 0.3%

Sampling rate: 10 Samples/ sec

Fixture: Table top/Pole mount

Application: Weigh bridge / Tank Weighing /

Process Weighing and Universal

weighing indicator



Model: YH-T7E

Display: 6 digits, 7 segment, LED /

Tactile Keys

Power supply: AC 230 VAC

Communication: Rs 232

Fixture: Wall Mountable

Application: Universal general purpose

weight indicator



Model: SENSO - D30

Power Supply: 230 VAC

Display: 6-digit / 7 segment LED

Dimension: Outer-20mm (w) *80 mm (h)

*200mm(d)

Fixture: Table top

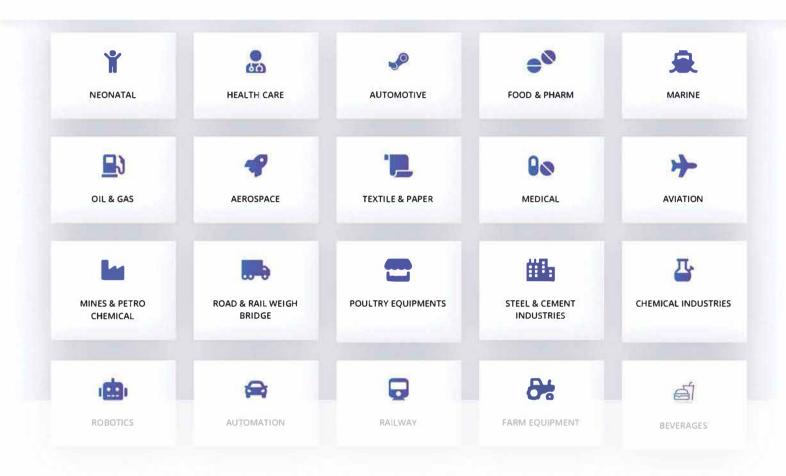
Application: Weigh bridge / Tank Weighing /

Process Weighing

RS 232 communication



We Serve these industries...







































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