

JAI KISHAN INDUSTRIES (REGD.)

# J.K.



## ELECTRONIC WEIGHBRIDGE



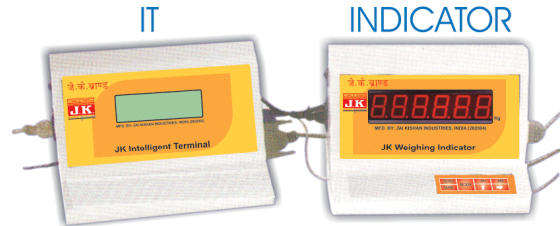
[www.jkscale.com](http://www.jkscale.com)  
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Accurate • Reliable • Efficient • Stable

Pioneers in weighing equipments since 1979



## ELECTRONIC WEIGHBRIDGE



JK Weighbridge Terminal Indicator is micro processor based digital indicating system. This is optimized to meet all the fundamental requirements of modern day Electronic Weighbridge. The high precision tracking excitation source has a capability to source more than 150 ma, adequate for 10 mo. 350 ohm loadcells. The analog frontend is built around a programmable gain differential amplifier with extremely low noise and offset drift. It has the facility to be interfaced with PC through RS 232 port.



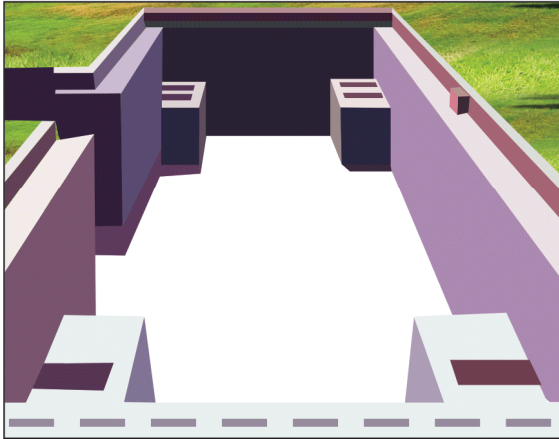
LED Display Segments



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## Construction & Working



**PIT TYPE**



**PIT LESS TYPE**

The Electronic Static Weighbridge is made up of a framework of girders adequately reinforced with transverse beams and suitable non-slip top deck. The entire MSI framework is mounted on strain gauge double end shearbeam/Rocker pin type loadcells. The number of loadcells depend on length of the platform. The shear stress produced by the load is detected by a strain gauge, full bridge circuit and converted into an analog electrical signal. Signal from each loadcell is fed to Junction box. Output from Junction box is fed to microprocessor based weighbridge terminal. The processing electronics of terminal digitizes the signal from the Junction-box using an ADC, based on latest Sigma Delta Technology and weight is registered on LED display.

## Power Supply: Weighbridge Technical Data

1. Universal switch mode supply with input range 80 VAC-275 VAC, 50/60 hz.
2. Battery backup with 6V/4.5 AH battery capable of supplying up to 25 hours of backup.
3. Loadcell supply: 5 VDC, short circuit proof for excitation of upto 10 loadcells.

## Measuring Principle:

System on chip technology having Sigma Delta Analog to digital converter and chopper stabilized programmable gain instrumentation amplifier

Noise: 6nv/√Hz @ 0-1Hz

Linearity error: 0.0007%FS

Internal resolution: 24 bit

Input range: 0-30 mV

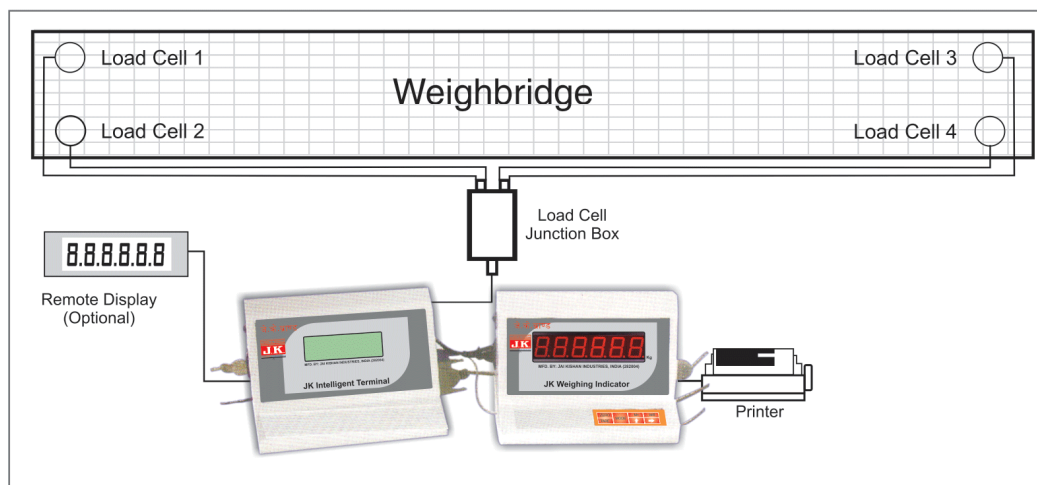
**Calibration:** Full digital calibration facility.

<b>Weight Display:</b>	Type	:	6 segment LED
	Height	:	1 inch
	Number of digits	:	6 digits
	Color	:	Bright red
	Unit	:	kg

## Features:

- Temperature range: 10°C ~ 55°C
- Auto zero tracking
- Auto weighing memory
- Computer connectivity: Optoisolated RS 232 port interface
- Power consumption: 7 VA (max)
- Remote display: Parallel port 15 pin D-conector provided at side of weighbridge terminal
- Housing: Sturdy grey coloured ABS plastic cabinet
- Junction-box: ABS I.P. 65 Sealing

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## SPECIFICATIONS

P.L. Size (Meter)	Capacity	Loadcells	Least Count
4.2×2.4	5/10/15 Ton	4	2kg
6.6×3	30/40/50 Ton	4	5kg
7.5×3	40/50/60 Ton	4	5/10kg
9×3	40/50/60/80 Ton	4	5/10kg
10×3	40/60/80/100 Ton	4	5/10kg
12×3	40-100 Ton	6	5/10/20kg
15×3	40-100 Ton	6	5/10/20kg
16×3	40-100 Ton	6	5/10/20kg
18×3	40-200 Ton	6	10/20kg
20×3	40-200 Ton	6/8	10/20/50kg
22×4.2	40-200 Ton	8	10/20/50kg
24×4.2	40-200 Ton	8	10/20/50kg
27×4.2	40-200 Ton	8	10/20/50kg

Other capacities and sizes as per customer's requirement are also made.

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Dealer Stamp :

MFG. BY : JAI KISHAN INDUSTRIES (Regd.)  
INDIA (282004)

All Specifications are subject to change for improvement without prior notices