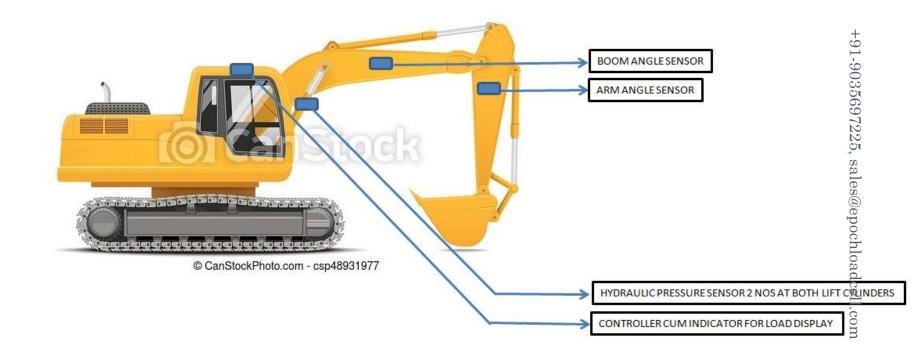
EXCAVATOR LOAD MONITORING SYSTEM



INTRODUCTION

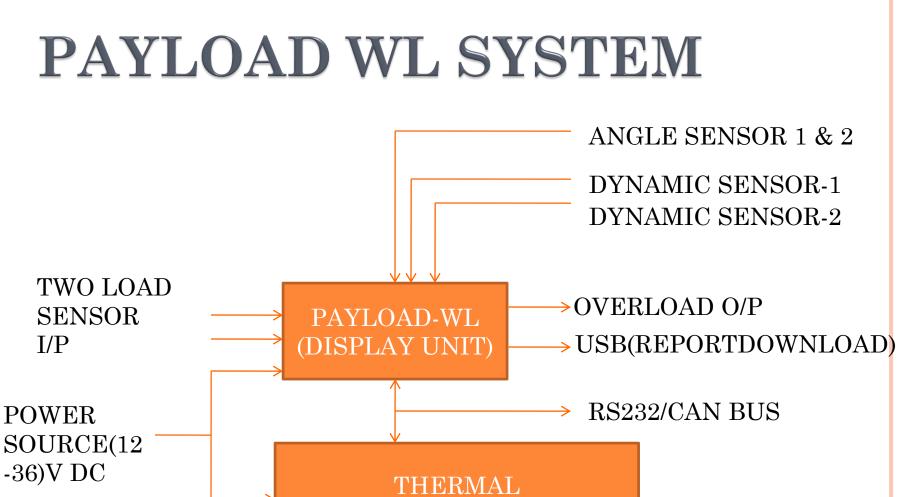
- PAYLOAD-WL is an onboard weighing device to measure the weight of material that is lifted by the wheel loader / Excavator
- The system captures the weight during lifting of the bucket.
- The system operates through hydraulics of the lifting cylinder.
- An advance algorithm is used to measure the weight accurately.

LIMITATIONS WITHOUT THE SYSTEM

- Weigh bridge is must to check the weight
- Chance of overloading
- Low productivity due to high cycle time
- Due to overloading , maintenance cost is high
- Inventory management difficult
- Difficult to install weigh bridge in off road workplace

BENEFITS OF THE SYSTEM

- Improves productivity
- Easy to install
- Increased load safety
- Save time going back and forth to load trucks
- Avoid overloading fines
- Improve lifetime of parts by optimum loading
- Reduce maintenance cost
- Cost efficient



PRINTER/GPRS(OPTIONAL)

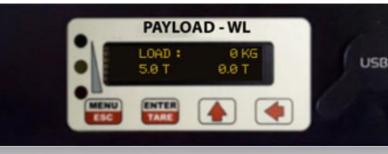
COMPARISON

MEASURABLES	BEFORE PAYLOAD WL	AFTER PAYLOAD WL
Time taken to load a truck	25 min	10 min
No. of trucks load in a day	57	144
Increase in loading efficiency	0	250%
Number of overloads		
No. of truck loads		
Individual bucket load		
Truck loads in a day		
Overall report of the day		

SPECIFICATION

- Model
 - CPU
 - Memory
 - Report
 - Display
- Load Sensor
- Dynamic sensor
- Digital output

- : PAYLOAD -WL
- : High Speed 16 bit CPU
 - : 50 bucket x 100 trucks data storage
- : USB Port for thumb drive
- : 2x16 character LCD alphanumeric display
- : Two sensor I/P 4-20 mA, two wire system
- sensor : Two digital input sensor
 - : One digital error output (overload, sensor error, improper lift)
- Communication : RS232,CAN Bus
- Keypad : User friendly 4 keys provided
- Operating voltage : 24V DC/0.5 A(12-36 V DC)



TECHNICAL FEATURES

- Accuracy
 - : ± 3- 5 % FS : 10 kg
- Resolution • Target load

: Set limit to load in the truck

- Weighing modes
- Operating temperature
- Storage temperature
- •Mounting type

- : Set limit to load in the truck : Static & dynamic mode to accurately measure the load 5697225, sales@epochloadcell.com
- $: -20^{\circ}$ C to $+70^{\circ}$ C
 - $: -40^{\circ}$ C to $+70^{\circ}$ C
 - : DIN Mount/Table top

ADD-ON FEATURES

• Printer

: Provides receipt for truck load with individual bucket load

• Monitoring platform

¹ : Live data uploading in server or SMS service to mobile after truck load using GPRS

REPORTS OF THE SYSTEM

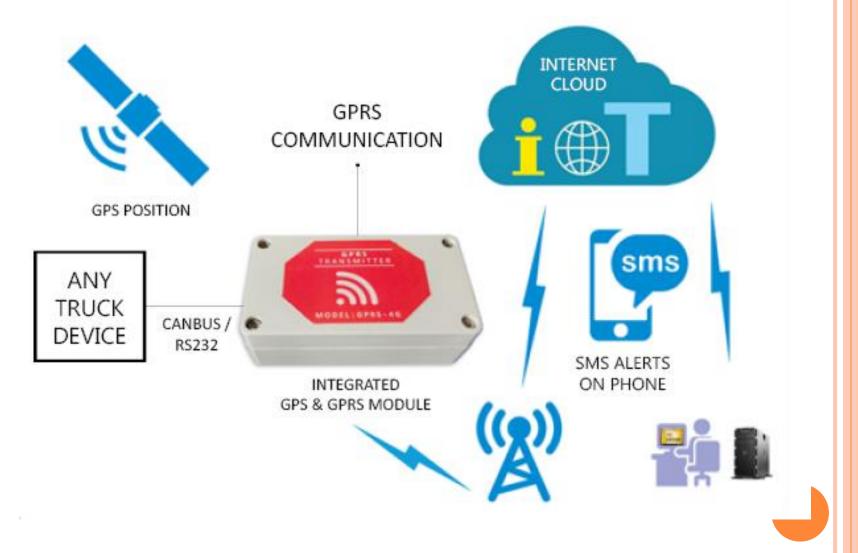
Individual report

WHEEL LOADER - 0001					
S.NO : 4 Truck No : 0001					
Date	:28/06/2020	Time:22	2:42:54		
BNO	DATE TI	ME B.	.Wt(Kg)		
1	16/06/2020	14:38	3200*^		
2	17/06/2020	11:13	1400 ^		
3	17/06/2020	11:43	1100 ^		
4	17/06/2020	12:17	1540		
5	17/06/2020	12:23	1550		
6	17/06/2020	12:33	1540		
	TOTAL WEIGH	IT: 1	L0330		
 * - OverLoaded 					
#/^/@ - ImProperLift					

Summary report WHEEL LOADER - 0001 Date:28/06/2020 Time:22:44:49 S.NO : 13 Truck No : 0001 BNO DATE TIME B.Wt(Kg) 1 17/06/2020 16:27 1980 # 2 17/06/2020 16:28 1310 ^ 3 17/06/2020 16:44 1630 # -----TOTAL WEIGHT : 4920 -----S.NO: 12 Truck No: 0001 _____ BNO DATE TIME B.Wt(Kg) 1 17/06/2020 16:23 4390*# 2 17/06/2020 16:23 950 # -----TOTAL WEIGHT : 5340 _____ S.NO : 11 Truck No : 0001 -----BNO DATE TIME B.Wt(Kg) 1 17/06/2020 16:08 4370*# 2 17/06/2020 16:22 800 # -----TOTAL WEIGHT : 5170 -----

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INTERNET OF THINGS (IOT)



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