



PAYLOAD MONITORING (ON-BOARD WEIGHING)

LOT MORE THAN JUST WEIGHING.. WE MONITOR OTHER CRITICAL TRUCK PARAMETERS..

LOAD MEASURING SYSTEM (LMS) - PRODUCT RANGE OVERVIEW

The load measuring system range of products for dumpers consists of production monitoring tools designed to maximize the efficiency and productivity of your Dump truck. The LMS is used to collect payload data and the speed of travel to enable safer loading practices and production efficiency information. The product consists of two range of product namely Payload III and Payload DT.

Payload III provides load data to monitor overload and trip load. Payload - DT provides load data to monitor, Overspeed and trip data including a cycle time which gives efficiency of dumpers by calculating TPH



Payload-DT measures, displays and records the weight of material being carried by off road truck (Dumper)

- Loading, hauling, Dumping, return and stop time for each trip.
- Maximum speed and average speed, Distance travelled and fault information with time for the loaded and empty vehicle
- PC Software is available to download the report (3000 trips storage)

Specifications

- Operating Voltage : 9-36V DC
- No of Analog Channels : 6 CHANNELS
- Type of Analog Input : 4-20 mA
- Angle sensor: Optional
- No of Digital Inputs :4 inputs (5-24V DC)
- No of Digital Outputs :3 relay outputs (24V) & 3 LED Indication
- Communication : RS232 X 1 & CAN X 1
- Display type :16 X 2 normal
- Keypad :4 Keys
- Max records storage capacity : 3000 records
- Report Downloading Option : Yes (USB Port x 1)



Our clients

- Dumper manufacturers (40-240 ton) in India for mines
- Tipper manufacturers (30-40 ton) in India for mines and construction
- Solid waste handling trucks

2000+ TRUCKS
ARE USING
OUR SYSTEMS
TILL DATE

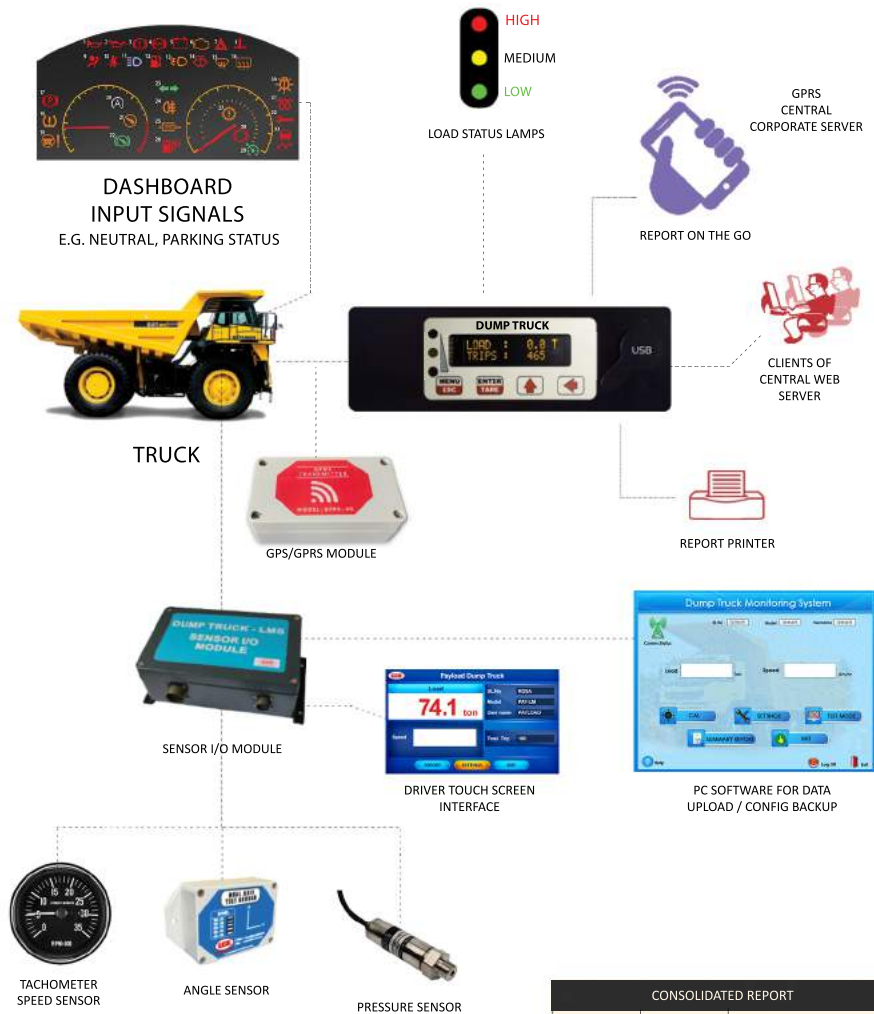
The need for Onboard weighing

- During loading itself, live monitoring of weight of trucks & regulate payload
- To avoid trips to weigh bridge just to check weight and return if already overload. Time and money wasted in back & forth trips
- To avoid overloading and unsafe trips
- To ensure all trips are legal with maximum trip efficiency
- On the spot, issue print-out of actual weight of cargo handed-over
- Automatic truck productivity calculation by system i.e. ton/hr or ton/km data for each truck

Our Uniqueness & What we do

LCS Dump truck system gives complete truck data e.g. detailed trip info, speed, distance, truck productivity metrics ton/hour, ton/km etc. We do this by taking other signals from truck E.g. speed, parking, neutral status etc and has advanced algorithms to process them.

Payload - Internet of Things

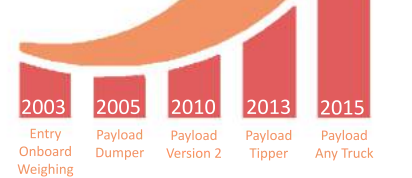


GPS live Route Tracking

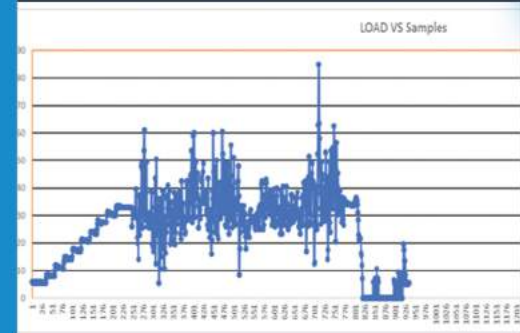


| CONSOLIDATED REPORT | | | | |
|---------------------|------------|----------|-------|-------|
| Sl. No. | 005 | | | |
| Cycle Start | 21/03/2013 | 18:39:20 | | |
| Cycle End | 21/03/2013 | 19:07:15 | | |
| | Total | Max | Min | Avg. |
| Cycle count | 8 | | | |
| Payload (ton) | 297.50 | 52.00 | 26.50 | 37.20 |
| E.Travel time | 3:00 | 01:05 | 00:06 | 0:00 |
| E.Travel distance | 0.25 | 0.14 | 0.00 | 0.03 |
| E.Speed(Km/h) | | 8.04 | | 7.02 |
| E.Stopped Time | 2:00 | 00:38 | 00:00 | 0:00 |
| Load Time | 9:00 | 07:01 | 00:05 | 3:00 |
| L.Travel Time | 7:00 | 06:22 | 00:04 | 1:00 |
| L.Travel Distance | 0.09 | 0.02 | 0.00 | 0.01 |
| L.Speed (Km/h) | | 8.09 | | 8.04 |
| L.Stopped Time | 0:00 | 00:00 | 00:00 | 0:00 |
| Dumping Time | 3:00 | 02:12 | 00:00 | 0:00 |
| Production(ton/h) | 744.00 | | | |
| Production(ton/km) | 875.00 | | | |

WE HAVE YEARS OF EXPERTISE ON WHAT WE DO



One full cycle (Load, Haul & Empty) for a Dumper Truck in a Mine



Application / Industries

- Construction / Logistics
- Container trucks
- Mining
- Solid Waste Management
- Concrete / Cement
- Fuel / Edible oil / Milk distribution
- Scrap material recycling – metals, building materials

LCS Controls Private Limited

Partner in weighing & Automation

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