

PAYLOAD MANAGEMENT PRODUCT RANGE GUIDE



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PAYLOAD MANAGEMENT PRODUCT RANGE OVERVIEW

The Payload Management range of products consists of production monitoring tools designed to maximise the efficiency and productivity of your earthmoving fleet. The products are design to increase productivity by utilising payload data to increase production efficiency and to enable safer loading practices.

The Payload Management range of products consist 2 system options and 2 support tool options:

System Options

- ❑ External Payload Display (For side loading applications only)
- ❑ Remote Payload Display (For all applications)

Support Tools

- ❑ Portable Payload Display
- ❑ Remote Payload Diagnostics Unit (For remote payload display systems)

The Payload Management range of products is only compatible with trucks with:

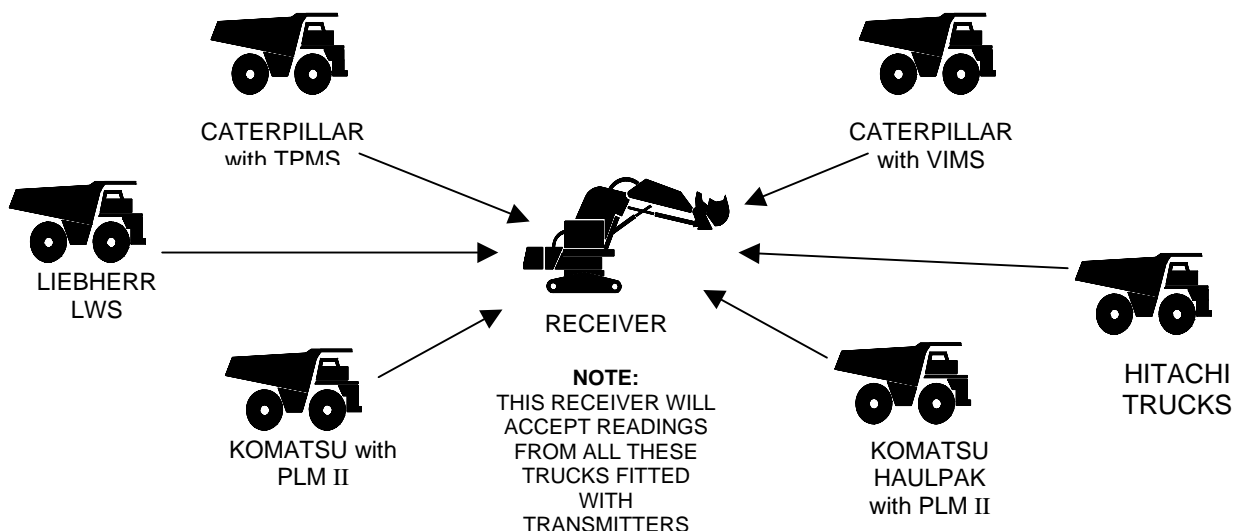
- ❑ Truck Payload Management Systems (TPMS)
- ❑ Vital Information Management System (VIMS)
- ❑ Pay Load Management II (PLM II)

The Remote Payload system works by transmitting payload data between the truck and loader, allowing the loader operator to see the trucks weight to enable them to fill the optimal load onto the truck's every time.

SIMULATED UNIT OPERATION

The Receiver Unit fitted to loader displays weight being loaded into Trucks.

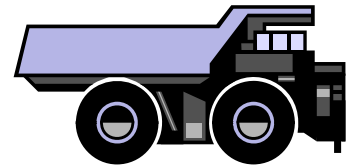
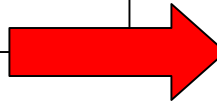
This payload data is transmitted to the loader via radio link.



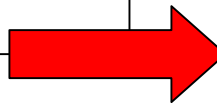
PRODUCT ARRANGEMENT ON A TYPICAL FLEET



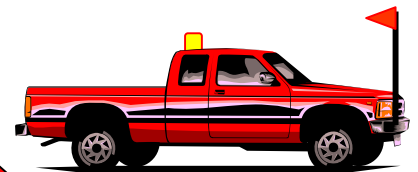
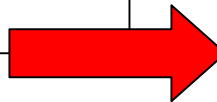
EXTERNAL PAYLOAD DISPLAY
IS FITTED TO THE TRUCKS



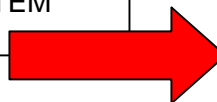
REMOTE PAYLOAD DISPLAY UNIT
IS FITTED TO THE LOADER



PORTABLE PAYLOAD RECEIVER
IS FITTED TO THE SUPERVISOR'S
UTILITY



REMOTE PAYLOAD DIAGNOSTICS UNIT
IS USED BY THE SERVICE
TECHNICIAN TO DIAGNOSE
THE PAYLOAD SYSTEM



FEATURES & BENEFITS

The **EarthTrack™** Payload Management products give you greater control over the productivity of your earthmoving fleet. The payload information allows you to better manage the efficiency of your fleet to gain greater productivity and engage in safer loading practices.

PRODUCT FEATURES include:

- Strut Indicators display the distribution of the load (*Remote Payload Display only)
- Weight display repeats the POD weight of the truck in the digger
- Integration with the trucks onboard OEM payload system
- Off the shelf kits allow fast set up
- Optional Large external LED display
- Universal components suit all trucks of the same make and model
- Detailed product documentation
- Operator and maintenance training available
- Optional portable supervisors units
- Minimum spare parts needed
- Australian made for universal application

CUSTOMER ADVANTAGES include:

- Preserve OEM weight related warranty
- Increase Bench Cubic Meters moved per shift/ per truck
- Weight properly and safely distributed on truck every time
- Extend life of power train
- Reduced strut damage
- Prevent over loading and under loading
- Reduce tyre wear
- Better return from fuel consumption
- Less clean up of spillage from over loading
- Enables site managers to monitor fleet and operator productivity

EARTHTRACK™ EXTERNAL PAYLOAD KIT

The EarthTrack™ External Payload Display kit (EPD) is designed to allow loader operator's to view the truck's payload weight whilst they are loading. The EPD kit connects directly into the truck's onboard Payload Operator Display (POD) unit and is mounted onto the truck's exterior so it can be easily viewed by the loader operator. This simple solution increases production efficiency by allowing the loader operator to load the optimal weight onto the truck's every time.

In some instances a truck may be loaded on the opposite side preventing the loader operator from viewing the display. This problem can be easily overcome by using the Dual External Payload Display Kit, which allows the display to be positioned on both sides of the truck.

FEATURES

- Large readable external payload display
- The transmitter unit connects directly into the POD unit with minimal modifications
- Easy to use and no maintenance required

BENEFITS

- Increases production efficiency by preventing overloading and underloading of weight on the trucks
- The large external display allows the site production manager to monitor fleet productivity
- Helps to preserve the warranty on new trucks

APPLICATIONS

- Caterpillar machines with Truck Payload Monitoring Systems (TPMS)
- Caterpillar machines with Vital Information Management Systems (VIMS)
- Komatsu machines with Pay Load Management II (PLM II) Side loading applications only
- Liebherr LWS



Size of display:
40cm x 21cm x 5cm

SINGLE EXTERNAL PAYLOAD DISPLAY KIT Part No.7422

- Includes:
- EPD transmitter to suit TPMS/VIMS or PLM II systems
 - Large digital display 6573
 - Connector loom 9918



DUAL EXTERNAL PAYLOAD DISPLAY KIT Part No. 1155

- EPD transmitter to suit TPMS/VIMS or PLM II systems
- 2 x large digital displays 6573
- Connector loom 9918
- Connector Loom 1146



REMOTE PAYLOAD DISPLAY

The EarthTrack™ Remote Payload Display (RPD) system works by transmitting radio data from the truck to the loader, displaying the exact tonnage filled onto the truck by the loading machine. This process increases production efficiency by allowing the loader operator to load the optimal weight onto the trucks every time.

The RPD system also allows the loader operator to monitor the payload distribution on the truck's loading tray. The system visually alerts the operator if overloading on one side or in one particular corner of the truck occurs. This feature helps to increase safety and minimise operating costs by reducing wear on the truck's struts, suspension and tyres. This process also ensures the trucks are safe for transport and preserves the warranty on new trucks.

The RPD system on the loading machine automatically communicates with the truck when the first load is placed into the truck's tray. If more than one loading machine is being used, the trucks can correspond between the different loaders by the operator switching the channel selector to the desired loader channel as it docks in to be filled.

FEATURES

- Displays the weight information on both the loader and truck
- The system automatically picks up the truck it is filling
- Strut Indicators display the distribution of the load on the truck
- Universal components suit all trucks of the same make and model
- Only a channel selector is required to run a multi truck system

BENEFITS

- Easy to use and no setup required to operate
- Increases productivity by preventing overloading or underloading of weight on the trucks
- Increases safety by allowing operator to monitor the haulage distribution on the truck's loading tray
- The payload information allows the site production manager to monitor fleet productivity & individual operators
- Helps to preserve the warranty on new trucks



REMOTE PAYLOAD DISPLAY
Part No.3010



CHANNEL SELECTOR
Part No.8893



TRANSMITTER
Part No. 1068 Cat TPMS
Part No. 1448 Cat VIMS
Part No. 3689 Hitachi
Part No. 3275 Komatsu
Part No. 1654 Leibherr

PORTABLE REMOTE PAYLOAD DISPLAY

The EarthTrack™ Portable Remote Payload Display (PRPD) is designed to allow mine site supervisors to monitor the productivity of their fleet from the comfort of their service vehicle. The PRPD comes in a solid metal case for easy portability and is powered by the cigarette lighter socket on the dash of the service vehicle. The PRPD communicates with the trucks via radio link and comes with a channel selector to allow the supervisor to select the truck they wish to monitor. This unit displays the exact information as seen on the loading machine.

FEATURES

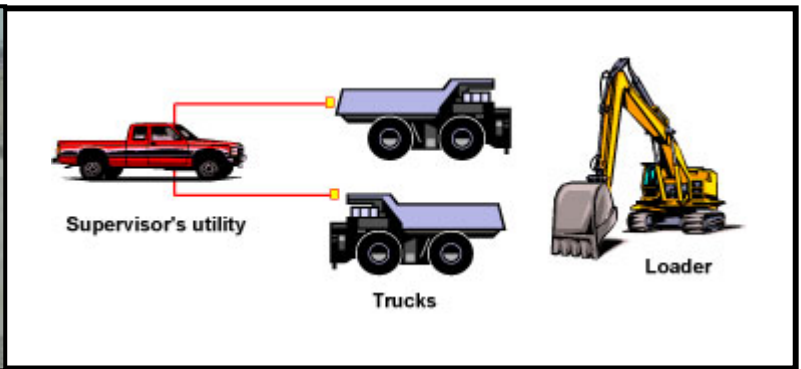
- Displays weight information on truck's load by load
- Channel selector allows the site manager to monitor different trucks
- Displays the truck's load distribution information

BENEFITS

- Easy to use and no setup is required to operate
- Allows the site manager to monitor the productivity of the entire fleet and also the performance of individual drivers and loader operators
- Allows the site manager to enforce safe loading practices by establishing regular safety checks



PORTABLE PAYLOAD DISPLAY
Part No.0000



The Portable Payload Display can be used in any service vehicle with a lighter power supply.



PORTABLE REMOTE DIAGNOSTICS UNIT

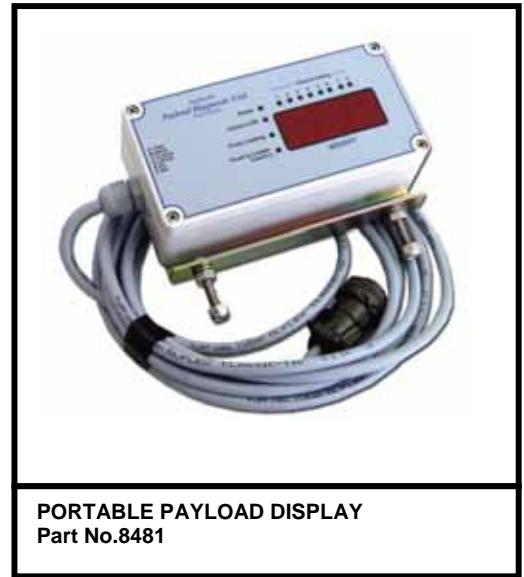
The EarthTrack™ Remote Payload Diagnostics Unit (RPDU) has been developed to allow on site service personnel to quickly and effectively diagnose faults with the Remote Payload Display (RPD) system. The RPDU performs various tests such as channel testing, weight display testing, communications testing and truck loading status. When used in conjunction with the Remote Payload Simulation Software (RPDSS), the diagnostic unit can be used to workshop test the machine without it actually performing loading functions.

FEATURES

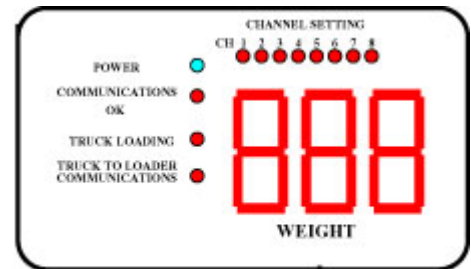
- On board LED diagnostics display
- Connects directly into the truck's management system
- Durable & robust design

BENEFITS

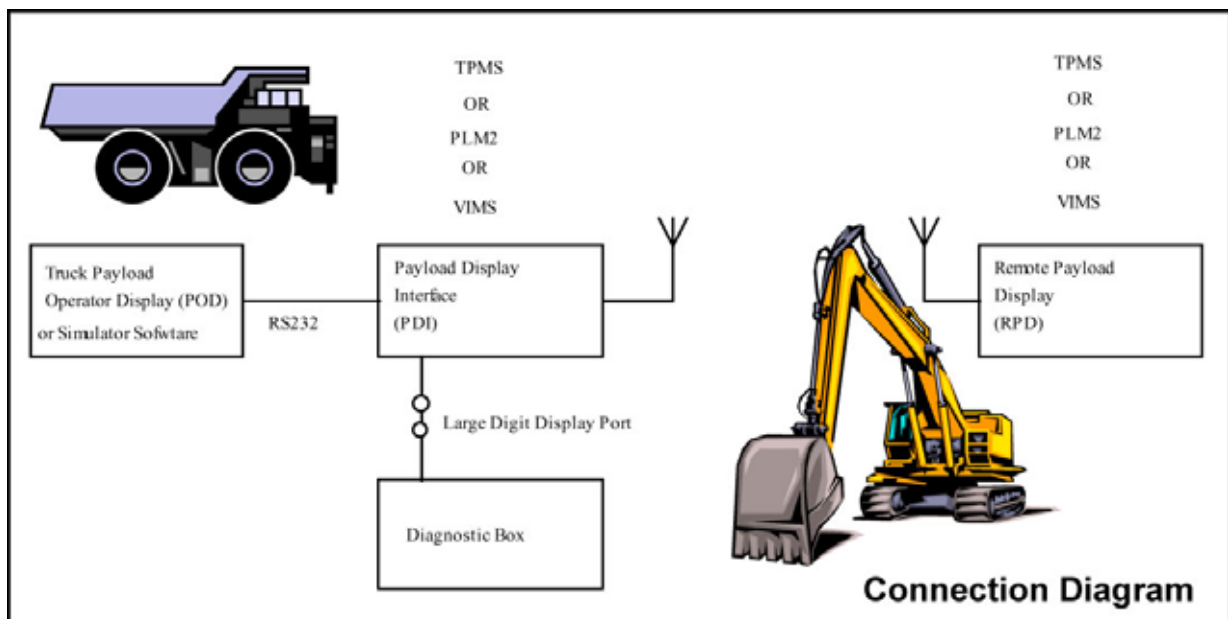
- Simple to use
- Portable design allows in field and workshop testing
- Quick fault detection minimise machine downtime



PORTABLE PAYLOAD DISPLAY
Part No.8481



Connects into the truck's Payload Display Interface (PDI)



Connection Diagram