

SAFE-AID

TS350 PAYLOAD INDICATOR WITH DATA LOGGING FOR WHEEL LOADERS / FRONT END LOADERS

The Safe-Aid TS350 payload indicator is designed with ease of use in mind and a product which surpasses any other payload system at an affordable price. A complete user-focused system, the TS350 requires minimal input from the operator allowing for seamless batch weighing of materials and precise loading of trucks.

An innovative feature of the TS350 is the reporting software – all batch weighing throughout the working cycle of the loader is monitored and recorded to a removable USB flash drive for materials handling management.

Data is simply transferred to a PC using the free data logging software supplied.

**TAKE THE GUESSWORK OUT OF WEIGHING YOUR TRUCKS,
LET OUR TECHNOLOGY WORK TO BOOST YOUR PRODUCTIVITY AND PROFITS!**



WHY INSTALL THE SAFE-AID TS350 PAYLOAD INDICATOR?

- We have years of experience in load indication and payload systems – designing and implementing systems since 1983 gives us the edge in technology based systems.
- Easy to use, operator-friendly purpose built systems with no complicated installation or operation procedures. The TS350 features a user friendly colour touch screen with “walk through” step by step procedures for the operator.
- You have a committed team, providing a product which is far superior than any other, is quality assured and is completely backed up.
- We are committed to product & service excellence

BENEFITS OF THE TS350 PAYLOAD INDICATING SYSTEM

- Accurate load indication of target and actual loads
- A full history of data can be kept on a local PC
- No more weighbridges = more productivity and time
- Easy to use, easy to install, easy to calibrate and maintenance free
- Effective and reliable system
- Optimizes the working cycles of the machines
- Eliminates the potential issuing of fines for overloading of the trucks
- The only payload indicating system that supports load indication at any angle
- Streamlined productivity & operator satisfaction
- Data logging of batches transforms your front end loader into an operational management tool
- Fully tested against temperature, humidity and vibration
- Conforms to Internationally recognised standards & certification



COST-EFFECTIVE | INNOVATIVE | PRECISION PRODUCTS

TECHNICAL SPECIFICATIONS

WEIGHING MODES

- User adjustable trigger point (point where bucket load is captured) using high accuracy accelerometer
- Setup with Machine ID, Material type ID, Company ID, target weight and emptied weight display
- Units of Measure Display – Metric Tons, Kilograms or Pounds
- Number of Buckets displayed
- Payload Limit Warning – Audio & Visual
- Recall / Subtract last load (cancel last bucket)
- System Tare (set bucket weight to zero)

PRESSURE SENSOR

- 4-20mA Output
- 0 – 600 Bar Measuring Range
- IP67 M12 Connector
- High Pressure Hydraulic Fitting
- Outside Dimensions 50 x 22 x 22mm (L x W x H)

BOOM MOUNTED AMPLIFIER BOARD IN PROTECTIVE STEEL BOX

- IP66 Glass Fibre Reinforced Polyester Enclosure
- Angle Measurement Using a High Sensitivity Multi Axis Accelerometer (accuracy $\pm 0.1^\circ$)
- 2 x Load Cell Input (mV input)
- 2 x 4-20mA Inputs
- 2 x 0 - 5 VDC Input
- 4 x Optically Isolated Digital Inputs (PNP or NPN User Selectable)
- CAN Bus and/or WiFi (Optional) Communication
- Outside Dimensions 160 x 75 x 60mm (L x W x H)
- Enclosed in Steel to Protect from Falling Material
- 3 Inputs can be Configured Simultaneously

TS350 DISPLAY UNIT

- 6 – 40 VDC Input Voltage
- Double Multi-Layered Circuit Board – 2 layers
- 3.5" TFT Colour Touch LCD with Backlight
- Graphical Colour Screen – 256,000 Colours
- Display Resolution – 320 x 240 Pixels
- 55 x 73mm Viewing Area
- Solid Aluminium Box with Powder Coated Sheet Metal Backend
- Replaceable Transparent Touch Screen Protection Sticker – Seals Touch Panel
- CAN Bus or MOD Bus (RS485) Communication
- 1 x USB Device Port (USB-A)
- 1 x USB Host Port (USB-B) - Optional
- 1 x Wireless port (Configured Utilising Required X-Bee Device)
- 4 x Optically Isolated Digital Inputs
- 2 x Relay Outputs (Potential Free Contacts)
- 2 x 4-20mA Inputs (Can be Configured Optionally as 0-10VDC inputs)
- 1 x Load Cell Input with 5VDC Excitation
- 1 x 85db Audible Alarm
- IP54 Environmental Protection
- Outside Dimensions 110 x 120 x 85mm (L x W x H)
- Battery Backed up real time clock
- Protection via 2 Amp Blade Fuse

CABLING & WIRING

- All Cables Terminated at TS350 Display or A400 Amplifier
- Sealed M12 Connector Used on Pressure Sensor

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