



DESCRIPTION

Bucket Scale (Wheel Loader Scale) is a dynamic scale and automatic collection equipment mounted on the wheel loader. When the lifting arm of the wheel loader is lifted to a certain height, the position sensor triggers the weighing process and the weighing indicator collects the oil pressure signal from the lower and upper oil chambers of the arm lift oil cylinder. After signal processing and compensation, Single bucket loading weight will be taken automatically and summed up as Total Loading Weight.

The operator evaluates whether the current Single bucket loading weight is valid according to the alarm messages and can verify the loading weight of the last bucket according to the negative deviation value.

Generally Features

- EMC design that can be used in industrial areas with its high anti jamming feature.
- DC24V power input with reverse polarity protection.
- 32-bit ARM CPU with 72MHz and higher arithmetic speed.
- Dustproof stainless steel box with IP65 protection level.
- 640 × 480 TFT screen.
- 24-bit $\Sigma - \Delta$ ADC with 1 / 1.000.000 Resolution.
- High sampling frequency 400Hz.
- Special Acceleration compensation algorithm developed for anti-vibration filtering software specially developed for fast, precise and stable weighing.
- Ability to save 10000 pieces of weighing and store them in memory.
- 50 Single bucket weighing records in each record.

System Accuracy

- Accuracy class: III
- Verified sensitivity for the weighing indicator: 0.02%.
- Accuracy of single bucket weighing: 0.5% ~ 1.0%.
- Total weighing accuracy: 1.0%.

System Configuration

- Weighing indicator with 1 internal thermal printer
- 1 position sensor
- 2 Hydraulic oil pressure sensors
- 2 pieces 3-way connection plates
- 1 Mounting mechanism

