Wheel Loader Weigher

Series:BST106
Model: N59-B

Wheel Loader Weigher

Operating Principle

- Wheel Loader Weigher is a dynamic weighing and auto-totalizing equipment installed on wheel loader.
- When the lift- arm of wheel loader lifted to a certain height, the position sensor will trigger the weighing process, and the weighing indicator will collect the oil pressure signal from lower and upper oil chambers of arm-lifting oil cylinder. After signal processing and compensating, Single-bucket-loading -weight will be got and totalized to Totalized Loading Weight automatically. The operator can judge if the present Single-bucket-loading-weight is valid according to the alarm messages, and confirm the last bucket's loading weight according to the negative deviation value.

System Configuration

- 1 Weighing indicator with thermal printer.
- 1 Position sensor.
- 2 Oil pressure sensors.
- 2 Plate type three-way joints.
- 1 Mounting fitting.

Technical Specifications

- EMC design with high anti-jam for industrial environment.
- DC24V power input with reverse polarity protection.
- 32-bit ARM CPU with 72MHz & higher arithmetic speed.
- Dust-proof stainless steel shell with protection level IP65.
- 640×480 TFT display screen with English display and input.
- 24-bit Σ-△ADC with internal resolution 1/1,000,000.
- High sampling frequency 400Hz.
- Special Anti-vibration Digital Filtering Algorithm for precise
- weighing, stable display and rapid response.
- Special Acceleration Compensation Algorithm.
- 10000 Loading Records can be saved.
- Each record can contain 50 Single-bucket-loading-weight.

System Accuracy

- Accuracy Grade: III.
- Verification Accuracy of Weighing Indicator: 0.02%.
- Accuracy of Single-Bucket-Weight: 0.5%~1.0%.
- Accuracy of Totalized Loading Weight: 1.0%.

High-frequency Sampling Anti-vibration Filter High-accuracy Weighing Real-time Alarm Output


Printer


Oil Pressure Sensor [IP67]


Position Sensor [IP67]


Plate Type Three-way Joint