Weigh bridge for trucks and wagons

SAT Ltd.
Features

- One or two platform weigh bridges
- Resistance against vibrations while weighing
- Complete computerized system for measurement, archiving & reports
Weigh bridge technical characteristics

- Weighing accuracy (OIML-R76) class III
- Maximal weight
  - for trucks 60 000 kg
  - for wagons 120 000 kg
- Minimal weight 400 kg
- Check division e = 20 kg
- Number of check divisions n = 6000
- Number of counts internal l = 1 048 576
- Ambient temp. range for the weighing platform (OIML) -10 - +40 °C
Weight sensors
Technical characteristics

- Manufacturer: TEDEA Huntleigh
- Model: 220/30/C3 (OIML - IR60)
- Rated capacity: 30 000 Kg
- Rated output: 2 mV/V
- Total error: 0.02% of applied load
- Zero return after 30min: 0.017% of applied load
- Temperature effect on output: 0.001% of rated output/°C
- Temperature effect on zero: 0.001% of rated output/°C
- Zero balance: +/- 2% of rated output
Weight sensors
Technical characteristics

- temperature range:
  - operating: -30 to +70 °C
  - compensating: -10 to +40 °C
- safe overload: 150% of rated capacity
- ultimate overload: 300% of rated capacity
- excitation: 15 Volts AC or DC
- isolation impedance: >2000 Ohms
- weight including cable: 3.25 Kg
- environmental protection: IP68
- construction: stainless steel
- cable: 6 Wire PU Dbl Scrn 20 metres (standard)
Industrial weight indicator
Technical characteristics

- manufacturer: Measurement Systems International USA
- model: MSI 3650, MSI 3750
- standard: OIML R76 (NTEP HB-44)- class III
- load cells: will drive up to eight 350 load cells
- max resolution: 1,048,576 counts internal (20 bit)
- number of check divisions: 3000
- check division: e=20kg
- drift zero: <5PPM/C (with AZM)
Industrial weight indicator
Technical characteristics

- **span:** < 15 PPM/C
- **weight display:** 6 digits 0.9"/23 mm LCD
- **power:** 180 to 280 VAC
- **temperature range:** -10 to +40°C NTEP/OIML
- **temperature range:** -20 to +60°C operating
- **programmable features:** RS-232C option
- **calibration:** fully digital
- **environmental protection:** IP65
Operator station
PC specifications

- Minimal requirements:
  - Celeron processor @333 MHz
  - RAM 64 MB
  - HDD 10 GB
  - FDD 3.5"
  - Keyboard 101 key
  - Mouse
  - 15" Color Monitor
  - Dot matrix printer
Scope of supply

- Loading platforms (steel or concrete construction)
- Civil works
- Platform mounting
- Load cells
- Weight indicator
- Operator station PC
- Matrix printer
- Device connection
- Weigh bridge calibration
- Weigh bridge legalization
- Training and education
Purpose and general functions of the software

- Receiving data from the transmitter of the load cells and digital processing/filtering
- Archiving received data from the transmitter and load cells
- Accomplishing logical order for activities in passing of wagons and trucks in both directions
- Accomplishing ordered and logical dialog with operator of the weighing station
Purpose and general functions of the software

- Issuing delivery notes - weighing and dispatching
- Issuing invoices
- Keeping up nomenclature for suppliers, clients, products (materials) and wagons (trucks)
- Keeping up archives in logical integrity and rejecting controversial data
- Creating and printing accounts
- Integration with existing plant account software
Main screen elements

- Operations - Import, Export, Complete, Duplicate note
- Reports - Dispatching (detailed), Dispatching (Generalized), Goods reports, Customers reports, Run
- Nomenclature — Goods, Transport, Suppliers, Customers
- Service — Password, Options
Import screen

All data concerning imported material is filled in the import screen.
Export screen

All data concerning exported material is filled in the export screen.
Import/Export notes

- Import note (Weighing note) - reflects the imported material from suppliers
- Export note (Dispatch note) - reflects the exported material from clients
- Invoices - optional along with export notes

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**DISPATCH NOTE**

<table>
<thead>
<tr>
<th>Serial number for the day No:1</th>
<th>06/20/02 07:55:12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Invoice : 25536</td>
<td></td>
</tr>
<tr>
<td>Customer : SFOXTEL</td>
<td></td>
</tr>
<tr>
<td>Object : LULIN</td>
<td></td>
</tr>
<tr>
<td>Truck No : 122-C3-324</td>
<td>Type : MERCEDES</td>
</tr>
<tr>
<td>Run : 52.5</td>
<td>Driver : Hasan M.</td>
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**WEIGHING NOTE**

<table>
<thead>
<tr>
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<th>06/20/02 08:56:12</th>
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</thead>
<tbody>
<tr>
<td>Invoice : 25536</td>
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<tr>
<td>Supplier : TRANSPORTATION</td>
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<tr>
<td>Object : LULIN</td>
<td></td>
</tr>
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<td>D. note No : 2341</td>
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<tr>
<td>Truck No : 442-ES-754</td>
<td>Driver : Hasan M.</td>
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</table>

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**OPERATOR:**

**DRIVER:**
## Suppliers report

- Contains information for the supplied quantities of products from different suppliers. Lines are grouped by name of the product
- Summarized and detailed

### Report Suppliers

<table>
<thead>
<tr>
<th>Code</th>
<th>Goods</th>
<th>By name</th>
<th>Nett[kg]</th>
<th>Volume[m³]</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>C0752FM ST:20M</td>
<td>25000</td>
<td>45000</td>
<td>31.09</td>
<td>25-06-02 10:17</td>
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<td>C4522CM ST:20M</td>
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<td>*20000</td>
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<td>15.11</td>
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</table>

Course count: 6
End of the report
Customers report

- Contains information for the produced quantities of products for different clients. Lines are grouped in two levels: by name of the product and by name of the client.
- Summarized and detailed
Production report

- Contains information for the produced quantities for the different clients. Lines are grouped by name of the product.
- Summarized and detailed

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<table>
<thead>
<tr>
<th>L/C</th>
<th>Goods</th>
<th>Ordered (Kg)</th>
<th>Executed (Kg)</th>
<th>Count</th>
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<tbody>
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<td>40669</td>
<td>CEMENT 420</td>
<td>22000</td>
<td>22000</td>
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<tr>
<td>40660</td>
<td>CEMENT 320</td>
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<td>21000</td>
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<td>40667</td>
<td>CEMENT 320</td>
<td>23500</td>
<td>23500</td>
<td>1</td>
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<td>49</td>
<td>CEMENT 420</td>
<td>38950</td>
<td>36850</td>
<td>2</td>
</tr>
</tbody>
</table>

End of the report
Delivery report

Contains information for the imported quantities from all suppliers.
Dispatching report

Contains information for the exported quantities from all clients.