

# TRUCK-X5

## global weighing technologies



- Weighing Controller for truck scale applications
- Compact, comfortable, fast
- Easy operator interface
- Comfortable management of database for vehicles, products and addresses
- Comprehensive Statistics
- Internal Alibi-Memory
- Configurable procedures

Now more than ever, process monitoring is a crucial factor for success in the overall industrial process. For example, quick identification of every movement of people and goods as well as incoming and outgoing transport units provides better transparency and effectiveness.

Until now, methods for monitoring the operation of weighbridges were too slow to keep pace with the fast movement of goods. This also applied to the processing and recording of relevant data such as, incoming weight, outgoing weight, truck code, site of delivery, customer's name and address.

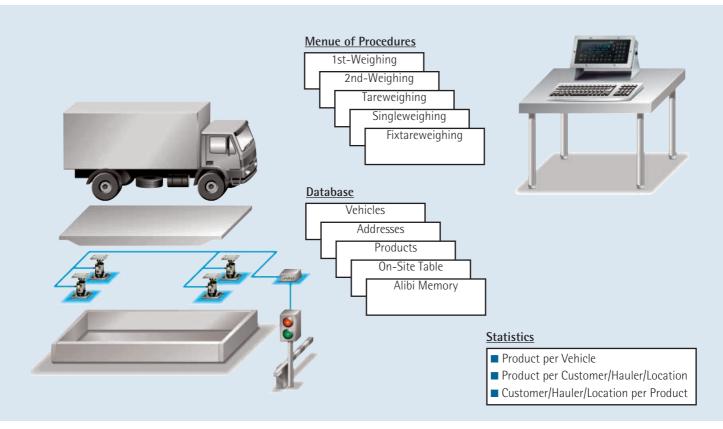
The new TRUCK-X5 controller introduced by GWT greatly facilitates process monitoring and speeds up data handling enormously. The TRUCK-X5 controller with the implemented application software fulfills the basic requirements for effective data gathering with weighbridges. With this solution, the weighbridge is operated with a single controller only.

The program includes the following standard functions:

- 1. Database with truck, product, address and on-site table.
- Functions like 1st-Weighing, 2nd-Weighing, Tare-Weighing and Single-Weighing.
- 3. Control of barrier/traffic-light
- 4. Internal Alibi-Memory
- 5. Statistics

The TRUCK-X5 is operated with soft-keys on the front panel or an external keyboard connected to the controller.

## Weighbridge-Application



To combine all current functions for truck scale applications in one device only was the challenge for developing the TRUCK-X5 controller.

#### Load-cell connection

GWT developed especially for truck scale applications the load cell PR6221 with impedance of 1080  $\Omega$  so 10 load cells can be driven without external power supply.

The power supply of the TRUCK-X5 can drive up to 8 load cells with 650  $\Omega$  due to the minimum impedance of 75  $\Omega$ .

#### **Functions**

The above graphic shows the basic functions of the TRUCK-X5 controller. Beside that following parameters are configurable:

- Period of statistic depending on memory space
- Date/time format
- Number of printer (3)

- Number of ticket copies
- Way of data input
- User management in 3 levels
- User specific PIN
- Control of traffic light/barrier
- Identification of weighbridge

#### Alibi-Memory

The TRUCK-X5 has an internal alibi memory with W&M approval. The size will be determined during commissioning. Guideline for the size is the number of weighing performed in approx. 90 calendar days. Once the database is generated you can search the saved data

- Weight
- Date Time
- Sequence number

with a filter if date, period or sequence number is matching.

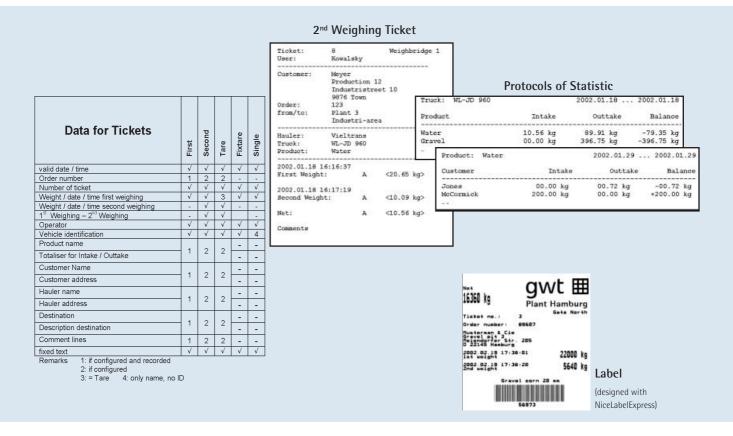
#### Database

The tables in the database

- Truck with the fields 'Ident''Trucknumber''Tareweight with user'
- Product with the fields 'Ident' 'Name' 'Intake/Outtake Quantity'
- Address with the fields 'Ident' 'Name' 'Address line1-3'

can be edited to enter a new record, to modify an existing record or to delete a record.

The address table contains customers as well as hauler and destinations. The use determines what exactly it is.



#### Security

With the user management and the use of PIN assigned to each operator the access to the operation is protected in a reasonable way.

The integral concept with components of the brand GWT for weighbridge applications offers the highest possible protection against damages by over-voltage.

## Control I/O's

By means of the digital I/O card with 4 inputs and 4 outputs a choice of four predefined PLC programs can be activated to control a traffic light or barrier in accordance to the weighing procedure.

#### Printer

The configuration menu allows the routing of printouts up to three different printers.

## ■ Log-printer

A one line printout will be generated, which is also accepted as alibi printout for W&M purposes.

- Database/statistic printer
   The listing of database and statistic reports can be printed with this device.
- Ticket-printer

  The weighing tickets are

The weighing tickets are assigned to this printer. The printouts are defined with a width of 35 characters

#### Print-Layout

The predefined layouts can be redesigned with two different tools.

- 1. Nice-Label Express
- 2. Programming tool PR1750 for OEM's

#### X5 PowerTools (Option)

#### FlashIt

for download of programs

## Layoutlt

driver for NiceLabelExpress

#### DisplayIt

let your PC take control of your TRUCK-X5

#### Translatelt

for simple editing of language tables

#### RecoverIt

saves the complete configuration on your PC.

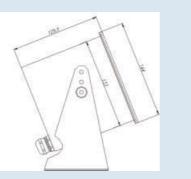
## AccessIt

direct access to the database of your controller for PC editing and downloading



#### Technical Data TRUCK-X5





## Power supply

 $115/230 \, V_{AC} \, 50-60 \, Hz$  max. 19 W / 25 VA

#### Housing

stainless steel DIN 1.43 01 (B.S. 304) Ingress Protection: IP 65

#### Display

7-digit plus status symbols text: 2 lines, 20 characters

## Load cell input

6- or 4-wire Load cell supply: 12 V Impedance: min. 75  $\Omega$ , e.g. 8 load cells with 650  $\Omega$ 

RAM extension 1 MB

#### **Control inputs / outputs**

4 opto-isolated inputs low: 0..5 V / high: 10.31 V 4 Relais outputs, 24  $V_{\rm pc}$  / max. 1A

## Interface

Bi-directional serial interface RS 232; user selectable protocols: Remote Display, Printer

#### Accuracy

5000d class III acc. to EN 45 501; OIML R 76 min. verification interval 1,2  $\mu$ V/e; suitable for automatic weighing instruments

Linearity <0,007 %

#### Resolution

max. 330.000 div. (internal)

## Measuring principle

ratiometric integrating A/D converter Conversion time: 50 ms Update: 100 ms to 2 s, adjustable in 100 ms steps or 4-pole digital filter 0,1 to 5 Hz

#### Input signal range

Net range 2,4 mV to 36 mV tare range: 0...33,6 mV

## Temperature influence

Live zero Tko:  $<0,1~\mu\text{V}$  / K RTI Span TKspn: <0,006~%/10~K

#### **Environmental conditions**

#### Temperature range

Operation: -10° C to +40° C Storage: -40° C to +70° C

## **Electrical safety**

according to IEC 1010-1

#### Vibration

according to IEC 68-2-6, Test Fc

#### Electrostatic discharge

according to IEC 1000-4-2 Level 3

#### Supply line

according to IEC 1000-4-4 Level 3

#### **Electromagnetic fields**

according to IEC 1000-4-3 Level 2

## Radio interference

according to EN 55011

#### Order informationen

	Order code		Order code
TRUCK-X5 230 V	PR 5610/10	Ethernet Interface	PR 1713/14
Options		Panel mounting kit	PR 1713/91
Serial Interface card (RS 232/485)	PR 1713/04	X5-PowerTools	PR 8001/01