

# GSW

Means a 100% reliable operation throughout the whole period of the software being used!



Standard



# GSW

Reliable software for weighing operations on truck and rail scales

# SIMULTANEOUS HANDLING OF TRUCK AND RAIL SCALES

Simultaneous handling of 3 scales. Communication with scale meters is performed by means of RS 232/485 and TCP/IP

The GSW Standard program installed on one computer can handle three scale meters. For every weighing devices, it is possible to perform single weighing, double weighing (entry/exit weighing), multiple weighing, compound weighing (long vehicles are weighed by means of short scales), service-related weighing and taring. It is possible to handle truck weighbridge and rail weighbridge from the same computer workstation.



## ✔ Networking

The GSW programs can be joined together to form any number of workstations within the scope of the company's local network. Owing to a fast, modern and very effective SQL server, it is possible to carry out safe online operations and collect huge amounts of data. The Program can easily handle weighing operations in companies in which, on average, more than 100 000 weighing operations are carried out per year.



First weighing (Ctrl+1)		Second weighing (Ctrl+2)	15:55:27
LICENSE PLATE NO.	EN 875NE	TARE	0 kg
SEMITRAILER NO.	WW 5678A	TYPE	Goods Received Note
CUSTOMER	ASK TECHNOLOGY		F1
PRODUCT	IRON AND STEEL		F2
ORDER NUMBER	RE-198/2015		F3
DRIVER'S NAME	ALBERT WEST		F4
COMMENTS			
ENTRANCE		<b>46100 kg</b>	WEIGH IN -0-
EXIT			
NET	46100		
NET DECLARED	0	<a href="#">List of first weighings</a>	<a href="#">List of weighings</a> <a href="#">Datasets</a> <a href="#">Report</a> <a href="#">Print</a>
1			

ONLINE HELP

# TYPES OF WEIGHING OPERATIONS

The GSW software allows to perform weighing operations in many different modes



## Single weighing

A vehicle / railcar is weighed just once. Tare weight value is uploaded from the database or is entered manually by an operator.



## Double weighing

Net weight is calculated on the basis of differences between two weighing operations: on entering and on departing from premises. Double weighing is also known as entry /exit weighing.



## Multiple weighing

Multiple weighing takes place when a vehicle or a railcar at the same time carries away or brings a few products that are supposed to be transported separately. Multiple weighing operations are often carried out when, e.g. mixtures are being prepared.



## Taring

It is a single-time weighing of a vehicle, as a result of which certain weighed mass is saved in the GSW database as tare weight. Saved tare weights are used for single weighing operations.



## Service-related weighing

It is a simplified mode of weighing. A weighing operation under this mode is not saved in the database – the only trace left is a ticket printout.



## Weighing railcar drafts

The GSW program has a mechanism for weighing drafts of railcars. The user can manage drafts and print collective weighing tickets for the entire draft.



## Weighing by items

During weighing it is possible to define an itemised number of products (e.g. 5 tyres). In order to perform a weighing operation, unit weight of a product must already be stipulated.



## Compound weighing

This type of weighing is useful when it is necessary to weigh long vehicles / railcars on short scales. During weighing, the vehicle / railcar is moved, and the sum of particular weighing operations constitutes the vehicle weight.



## Manual weighing

It is possible to weigh mass introduced „by hand“ (i.e. the mass that does not come from the scale meter). This function should be used solely in emergency situations (i.e. when it is necessary to introduce into the database weighing operations that were not performed, e.g. because of a failure of scales or of a computer operating the scales).



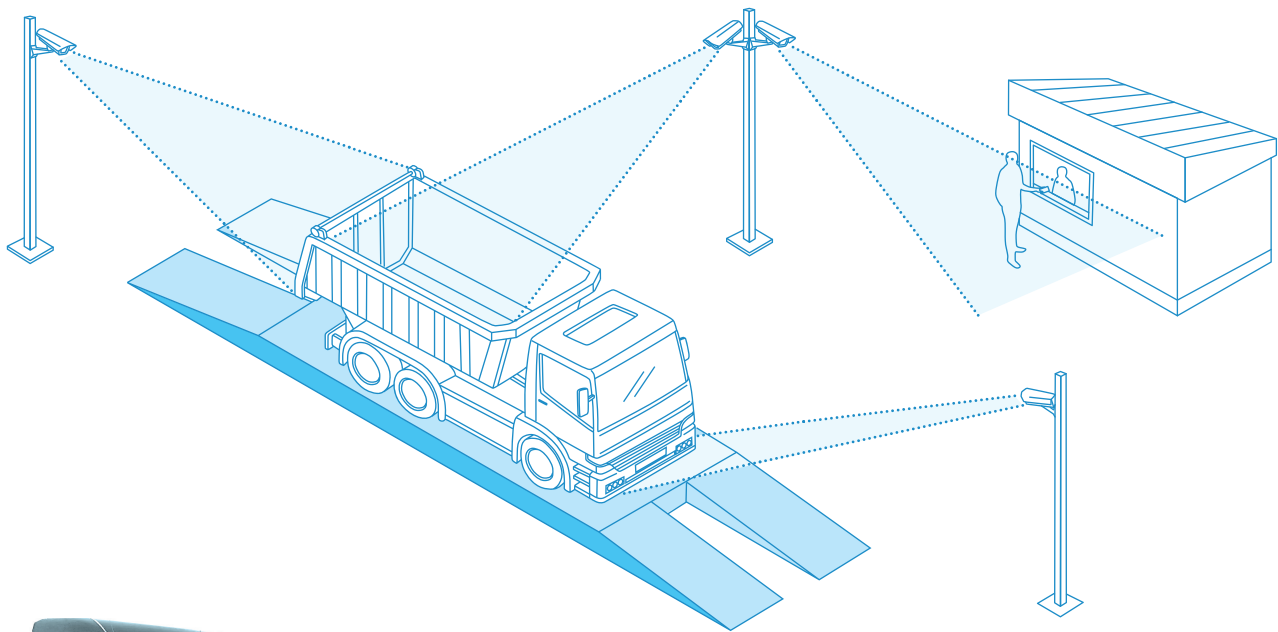
## Weighing on pallet scales

The function allows to perform weighing operations using small scales (e.g. pallet scales), without a need to enter a plate number. The weighing operation shall be a single weighing operation. The function is frequently used in companies dealing with steel scrap.

# CAMERA HANDLING

## Recording and viewing of images from analogue and IP cameras

The GSW program includes an advanced mechanism to operate video sources. Owing to that, it is possible to use up to 12 cameras at the same time. Images are viewed in real-time while photographs are recorded upon weighing.



### ✔ Recognition of plate numbers

The GSW program contains a mathematically strong unit to recognise plate numbers. The GS Software excels in creating weighing systems, combined with the function for recognizing plate numbers of weighed vehicles.

### ✔ A unique ZOOM-IN function

The GSW program includes the function of zooming-in of a chosen fragment of a picture. Thanks to the function, it is possible to magnify a plate number in order to let a person in charge of weighing read the number easily and introduce it to the program.

Weighing no.	License plate no.	Contractor	CODE	Product	Entrance date	Exit date	Weighing 1	Weighing 2	Net
14/2013	KT 54058	ASK TECHNOLOGY	20 03 99	ALUMINIUM	2013-10-09 10:32:54	2013-10-09 12:11:54	28660	18660	10000
13/2013	WIE 37807	ENGINEERING		STRUCTURAL COMPONENTS	2013-10-09 09:39:47	2013-10-09 11:21:39	19320	28660	9440
12/2013	PO 7480U	US ELECTRO WEIGH	17 04 05	IRON AND STEEL	2013-10-09 07:55:44	2013-10-09 09:53:00	17120	4080	4080
10/2013	LU 3959R	US ELECTRO WEIGH	17 04 05	STRUCTURAL COMPONENTS	2013-10-09 07:04:47	2013-10-09 10:26:44	19220	28660	9460
09/2013	PO 3617E	US ELECTRO WEIGH	17 04 05	IRON AND STEEL	2013-10-09 14:07:00	2013-10-09 16:59:40	17100	21330	4220
9/2013	WVW 879HG	WEIGHING MACHINES	17 04 05	IRON AND STEEL	2013-10-08 13:41:03	2013-10-08 13:41:03	38720	14560	24160
8/2013	BL 2790L	US ELECTRO WEIGH		STRUCTURAL COMP					18940
7/2013	TR 871WE	ASK TECHNOLOGY	17 04 05	IRON AND STEEL					19220
6/2013	KL1 989P	VISUAL DATA TECHNOL		STRUCTURAL COMP					1480
5/2013	SH 423PO	US ELECTRO WEIGH	17 04 05	IRON AND STEEL					25840
4/2013	SK 548UK	WEIGHING MACHINES		GAZ CYLINDER TRU					100
3/2013	WVW 989RE	ENGINEERING	15 01 04	METAL PACKAGING					320
2/2013	OP 987J3	LBS PROCESS SOLUTION	17 04 05	IRON AND STEEL					1680
1/2013	HR 124FF	ASK TECHNOLOGY	17 04 05	IRON AND STEEL					380

# REPORTS, TICKET EDITOR

The program ensures an advanced generator of reports and a graphical tool to modify the content of weighing tickets

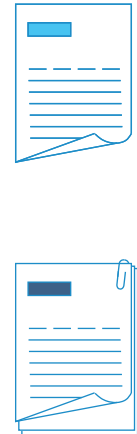
Reports are a considerable advantage of the GSW program. The program is equipped with the report generator that allows to create any summaries of performed weighing operations.

## Report templates

The GSW software contains a mechanism that allows to save report templates. Owing to that, the user does not have to define at any time the same searching criteria for weighing operations – all he/she has to do is to select a template from the list.

SUMMARY REPORT

DETAILED REPORT

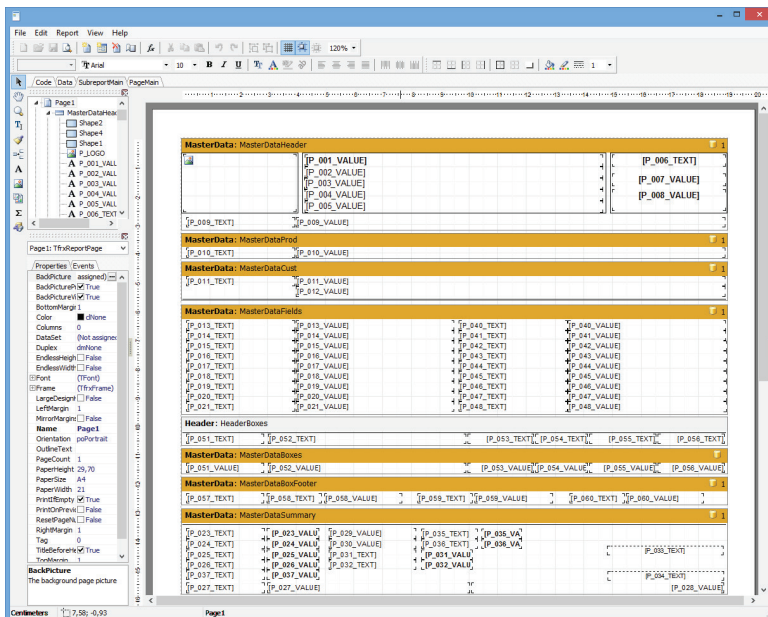


## Ticket editor

The GSW software is equipped with a graphical editor that helps users to tailor the look of their weighing tickets to their own needs (e.g. headed paper).

Editor functions:

- changes to a location of all ticket elements
- possibility to delete any elements
- possibility to add additional text elements
- possibility to add graphics files in the following formats: bmp, jpg and png
- changes to the font size, typeset and colour for every element



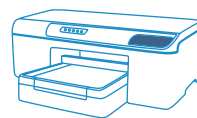
GRAPHICAL FORM

TEXT FORM

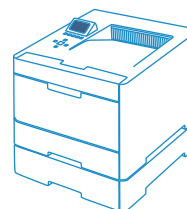


## Printing of tickets

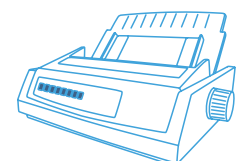
The GSW program allows to print weighing tickets in a graphical form (by means of laser and ink printers) and in a text form (by means of dot-matrix printers).



INK PRINTER



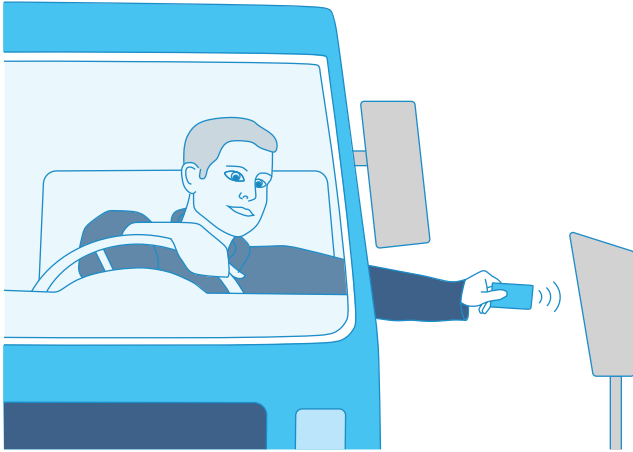
LASER PRINTER



DOT-MATRIX PRINTER

# CO-OPERATION WITH RFID CARD READERS

## STX-1000, STX-2000



The GSW program, aligned with STX 1000 and STX 2000 readers, allows to perform weighing operations by means of RFID cards or a special code assigned to each driver.

The readers have digital in/out modules. Owing to the modules one can operate peripheral devices (e.g. signalling lights, barrier gates).

### ✓ STX 1000



#### An example of a weighing system, combined with STX 1000:

1. A vehicle stops on the weighbridge.
2. A driver leaves the vehicle and approaches the STX 1000 reader.
3. Upon holding the RFID card in front of the reader, the system records a weighing result and an image from the camera.
4. The reader displays „OK“ which means that the weighing operation has been carried out successfully.

### ✓ STX 2000



#### An example of a weighing system, combined with STX 2000:

1. A vehicle stops on the weighbridge.
2. A driver leaves the vehicle and approaches the STX 2000 reader.
3. The driver enters his/her code (assigned earlier by the system) on the reader keyboard.
4. A weighing operation is performed.
5. The reader displays „OK“ which means that the weighing operation has been carried out successfully.

# CO-OPERATION WITH SELF-SERVICE TERMINALS

## Drivers perform weighing operations and can enter additional data

The GS Software company is a producer of self-service terminals which, when combined with the GSW software, are used to improve weighing processes.

By means of the terminal, a driver can perform a weighing operation while entering/selecting required information (e.g. a product, an order number). Login to the terminal can be carried out by means of a RFID card, a unique code assigned to each driver or a plate number.

Terminals are available in various casings: ABS, aluminium, stainless steel.



### ✓ STX 4000



TERMINAL IN ALUMINIUM CASING



TERMINAL IN STAINLESS STEEL CASING

### ✓ Basic functions of terminals:

- Handling of RFID cards
- Handling of login operation by means of a code or plate number
- In-built memory for databases (e.g. about products)
- Data search engine
- Handling of a numeric and alphanumeric keyboard
- Handling of serial printers
- Handling of barcode readers
- Digital in/out for peripheral device control

# ADDITIONAL MODULES

## Possibility to extend the program

Functionality of the GSW program can be extended by means of additional modules.



self-service terminals for drivers



control of a vehicle's location on the weighbridge



indicator-related steering



loading / unloading handling



weighbridge monitoring (registering presence of an object)



access to the data via the Internet



registering of tickets and reports in the pdf format, sending e-mail messages



handling of weighing procedures, including packaging / containers



dealing with pollutions (% and kg)



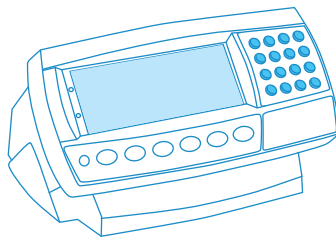
dealing with invoices



warehouse handling



percentage ratio of weighing



### ✓ Additional scale meters

The GSW program handles more than 60 types of scale meters. Communication between scale meters is maintained by means of RS 232/RS 485 or TCP/IP.

Should you possess a meter which cannot be operated by our software, we shall create a module for its servicing with no additional costs apart from the software price.

### ✓ Language versions

The GSW Standard software is available in the following language versions:

- Polish
- English
- German
- Czech
- Hungarian
- Romanian
- Spanish
- Lithuanian
- Chinese
- Finnish





# FUNCTIONS OF THE GSW PROGRAM

## Summary of functions of the GSW program in version: Standard



STANDARD

Single weighing	✓
Double weighing	✓
Multiple weighing	✓
Simplified weighing	✓
Tarring of vehicles	✓
Simultaneous weighing service on 3 scale	✓
Simultaneous weighing service on truck and railway scale	✓
Weighing of rail cars	✓
Configurable database tables	✓
Tables: Customer + Product + 10 additional tables (configurable)	✓
Option to configure extra 8 information fields (not dictionary ones) used while weighing	✓
Setting up connection with scales automatically when program starts	✓
Optional change of program weight units (kg, Mg)	✓
Rounding weight value calculations to a set decimal place	✓
Handling proximity card readers	✓
Operation of STX 1000 and STX 2000 devices	✓
Handling database sets	✓
Saving vehicle tare weights in database	✓
Function of warning from outdated vehicle / car tar	✓
Previewing the list of weighing's	✓
Previewing weighing details from the List of weighing's window	✓
Handling accounting from the List of weighing's	✓
Previewing weighing ticket available on the List of weighing's window	✓
Printing weighing ticket available from the level of List of weighing's window	✓
Exporting List of weighing's to .csv file format	✓
Exporting List of weighing's to .xls file format	✓
Printing tickets available in graphics or text mode	✓
Graphic tool allowing to change ticket layout	✓
Option allowing to assign different ticket patterns to specified productsn	✓
Report creator	✓
Exporting reports to pdf, Microsoft Excel, rtf file format	✓
Handling weight value display on a external display unit	✓

# FUNCTIONS OF THE GSW PROGRAM

## Summary of functions of the GSW program in version: Standard



STANDARD

Handling 12 separate cameras simultaneously (digital or IP) - online camera image preview available with option allowing to take photos while saving weight recording	✓
Function allowing to zoom in selected part of image (e.g. close-up on a license plate number)	✓
Previewing camera images taken during measurement from the List of weighing's window	✓
Automatic start of camera image preview when starting the program	✓
Allocating cameras to each scale	✓
Memorizing gross vehicle weight	✓
Warning of exceeding gross vehicle weight limit	✓
Option to change the name of company (scale owner) into that for which weighing is planned, from the level of main Weighing window	✓
Managing program users	✓
Managing users' permissionse	✓
Module of Handling pollution (in % and kg)	○
Vehicle weight distribution module (handling vehicle weight distribution in % and kg)	○
Contract management module (contract prices and limitations)	○
Inventory handling module	○
Invoicing module	○
Video surveillance module (recording vehicle entering and exiting a scale)	○
Handling packaging / container weighing	○

### Minimum system requirements:

- Intel Pentium III or a similar device
- 512 MB RAM memory or more
- 50 MB of available disk space on the hard disk drive
- CD-ROM or DVD-ROM drive
- One free USB port (licence on the basis of USB hardware key)
- A SVGA monitor or one of higher resolution
- Microsoft Windows 2000 or its recent version (32 and 64 bits)

### Key:

- ✓ A function is available
- A possible option (the function is available for an additional charge)

A comprehensive list of functions is available at [www.gs-software.co.uk](http://www.gs-software.co.uk)

# LEADING COMPANIES CHOOSE GSW

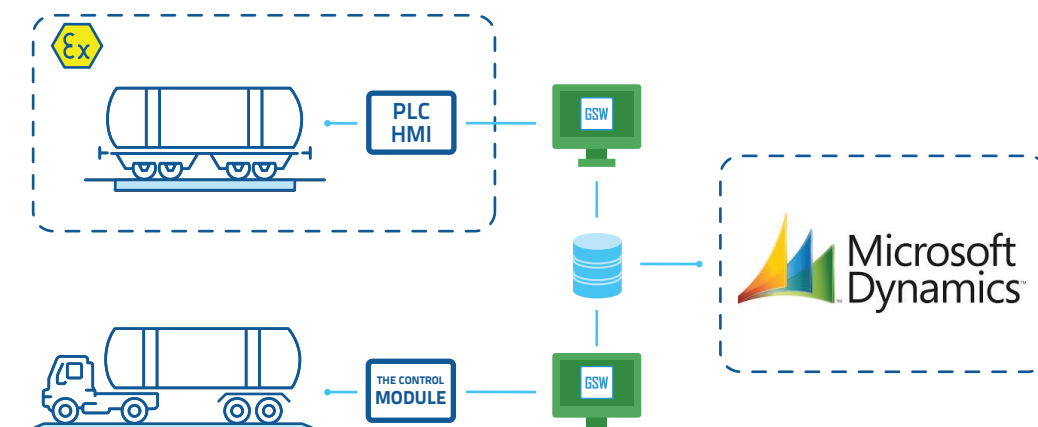
## Integration of GSW with parent systems

Each year we sell hundreds of the GSW licences. Numerous leading companies on the international market have appreciated our efforts. In many companies a reliable handling of scales is of essential importance for acceptance/ release of goods. We guarantee a reliable operation of our software throughout the whole period of use, 24 hours a day and 365 days a year. We take considerable pride in that.

 ArcelorMittal	 GASPOL	 PGE	 STATOIL	 ATLAS
 KNAUF	 Carlsberg	 Reckitt Benckiser	 Valeo	 LOTOS
 ORLEN GAZ	 Gillette	 MAN	 TAURON WYTWARZANIE	 MOTÆENGIL
 SKANSKA		 TESCO	 GEDIA	 Dr.Oetker
 LG Life's Good	 de heus	 CEDROS	 STENA	 CAPAROL

### ✓ Software integration

Our company specialises in integrating weighing software with parent systems.



\* All other names are trademarks or registered trademarks of their respective owners.

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throughout the whole period  
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