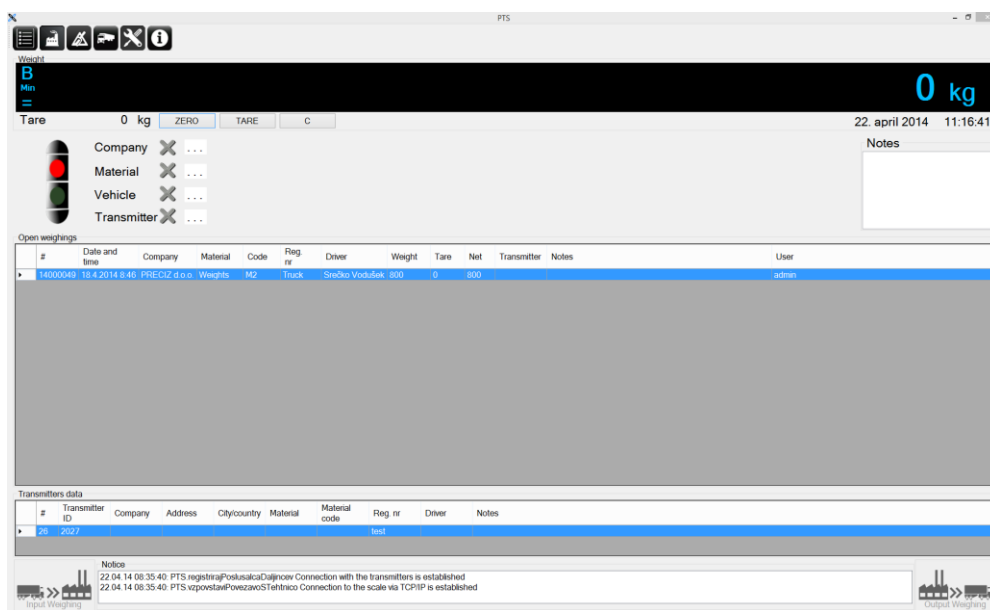


User manual for PTS©



Preciz Truck Software

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Databases are intended to quicken weighing operations and storing them with key's with which we can make reports, evidence the material stock etc...

2.1. Companies database

Company's database is used to store regular customers/suppliers to just easily select them from list when they come or supply goods without need to input all their data again like title, address... To every company we can link also materials and vehicles so when we select company first then the list of materials and vehicle automatically shows only material/vehicles that are linked to the company, which shorten the process of selecting proper material/vehicle.

With companies database there is also automated statistics where one can see:

- no. of input weighing's,
- sum of input weighing's,
- no. of output weighing's,
- sum of output weighing's and
- difference between sum of input weighing's and sum of output weighing's.

2.1.1. Adding new company

In main menu we select company's and in new window we press button Add.

When we enter company data we link vehicles and materials to it. As mentioned above only this vehicles/materials will be shown in search window in main mask when we select company first.

Material/vehicle we link so that in field of unlinked vehicles we select vehicle/material and we press button >>.

When we want to unlink material/vehicle we select it in field of linked vehicles and we press button <<. Selected item will automatically be transferred to unlinked field.

Input is finished with press of button Save.

2.1.2. Changing existing company data

In the main menu we press companies and in new window on the list of companies we double click company which data we want to change. The procedure after is the same as adding new company. Changes are saved with press of button Save and discarded with press of button Close.

2.1.3. Deleting of company

In the main menu we press companies and in new window on the list of companies we click company which we want to delete. Than we press button Delete or press delete key on keyboard. After there is a question if we really want to delete selected company. If we press yes company will be deleted.

2.1.4. Export to CSV and printing reports

Each company or selected companies can be exported to CSV file. This is done so that we select companies which we want to export and press right mouse button and in context menu we press Export to CSV. Application automatically offers window where we can input file name and select path where to store file.

Procedure for printing report is the same but when we select companies we just press button print or print preview and report will be printed.

2.2. Material database

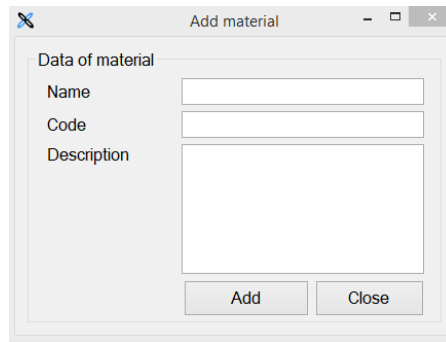
Material database is used to store materials with data which are name, code/ID and description. Materials can than be linked to the companies.

With companies database there is also automated statistics where one can see:

- no. of input weighing's,
- sum of input weighing's,
- no. of output weighing's,
- sum of output weighing's and
- difference between sum of input weighing's and sum of output weighing's.

2.2.1. Adding new material

In main menu we select Materials and in new window we press button Add.



Name and code are printed also weighing ticket while description is mean only for internal use. We add material by pressing button Add.

2.2.2. Changing existing material data

In the main menu we press materials and in new window on the list of materials we double click material which data we want to change. The procedure after is the same as adding new. Changes are saved with press of button Save and discarded with press of button Close.

2.2.3. Deleting of material

In the main menu we press materials and in new window on the list of materials we click material which we want to delete. Than we press button Delete or press delete key on keyboard. After there is a question if we really want to delete selected material. If we press yes material will be deleted.

2.2.4. Export to CSV and printing reports

Each material or selected materials can be exported to CSV file. This is done so that we select material which we want to export and press right mouse button and in context menu we press Export to CSV. Application automatically offers window where we can input file name and select path where to store file.

Procedure for printing report is the same but when we select materials we just press button print or print preview and report will be printed.

2.3. Vehicle database

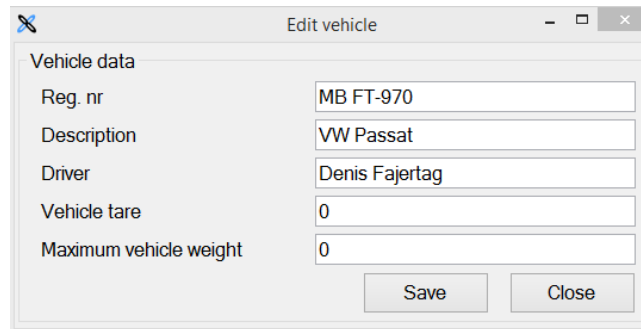
Vehicle database is used to store vehicles that are regularly deliver or depart goods with data which are registration no., description, driver, vehicle tare and maximum vehicle weight. Existing vehicles can than be easily selected or linked to company.

With vehicle database there is also automated statistics where one can see:

- no. of input weighing's,
- sum of input weighing's,
- no. of output weighing's,
- sum of output weighing's and
- difference between sum of input weighing's and sum of output weighing's for each vehicle.

2.3.1. Adding new vehicle

In main menu we press Vehicles and in opened window we press Add button.



Vehicle data	
Reg. nr	MB FT-970
Description	VW Passat
Driver	Denis Fajertag
Vehicle tare	0
Maximum vehicle weight	0

Registration no. and driver are also printed on the weighing ticket. Description field is intended for internal use. Field vehicle tare is used for inserting empty vehicle weight.

When you input number greater than zero this value is automatically set as the tare value. This means that when you make input or output weighing there will be only one weighing so input&output weighing is not possible because tare value is used as vehicle tare (with transmitter preset vehicle tare is ignored because with transmitter's we always make input/output weighing). If you make input weighing with vehicle that has entered tare than this weighing will be treated as if somebody would deliver material to company. If you make output weighing with vehicle that has preset tare than this will be treated as if somebody would depart material from company. But we advise you not to use preset tare function because empty vehicle can vary a lot in connection with how much gas tanks is filled up, if driver changes etc...

Maximum vehicle weight is used to enter maximum weight that the vehicle is allowed to have. This is a great feature if we want to prevent too heavy vehicles to go out of the company. If gross weight is above maximum vehicle weight than this will be printed on report with red text.

We confirm entry with press of Save button.

2.3.2. Change of vehicle

In the main menu, we press vehicles and in new window on the list of vehicles, we double click vehicle which data we want to change. The procedure after is the same as adding new. Changes are saved with press of button Save and discarded with press of button Close.

2.3.3. Deleting of vehicle

In the main menu, we press vehicles and in new window on the list of vehicles, we click vehicle, which we want to delete. Than we press button Delete or press delete key on keyboard. After there is a question if we really want to delete selected vehicle. If we press yes vehicle will be deleted.

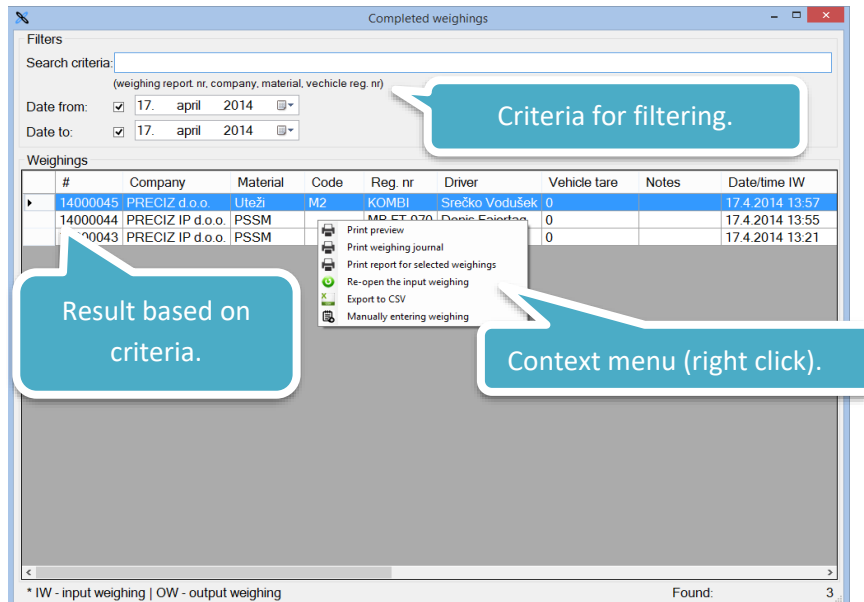
2.3.4. Export to CSV and printing reports

Each vehicle or selected vehicles can be exported to CSV file. This is done so that we select vehicle which we want to export and press right mouse button and in context menu we press Export to CSV. Application automatically offers window where we can input file name and select path where to store file.

Procedure for printing report is the same but when we select vehicles we just press button print or print preview and report will be printed.

2.4. Weighing's database

Weighing's database is intended to store executed weighing (weighing history). In this database only finished weighing's store so without open weighing's.



Search criteria can be weighing ticket no., company name, material name, registration no.. Criteria can also be limited with date from and date to.

NOTE: please note that date selection is not possible if check box before date that we want to set is not checked. If no check box is checked than date criteria is not used.

In context menu we can choose:

- print preview,
- print weighing
- re-open closed weighing,
- export to CSV and
- manual entry of weighing.

We can also delete weighing by selecting the one that we want to delete and then press delete key.

NOTE: if we delete weighing also all statistics are updated for companies, material and vehicles. Deleted weighing are still stored in database but they can not be seen anymore and they are not calculated in statistics. When we delete weighing the weighing ticket no. is also deleted so sequence of numbers has than missing numbers.

NOTE: abbreviation IW stands for input weighing while OW stands for output weighing.

3. Manual weighing

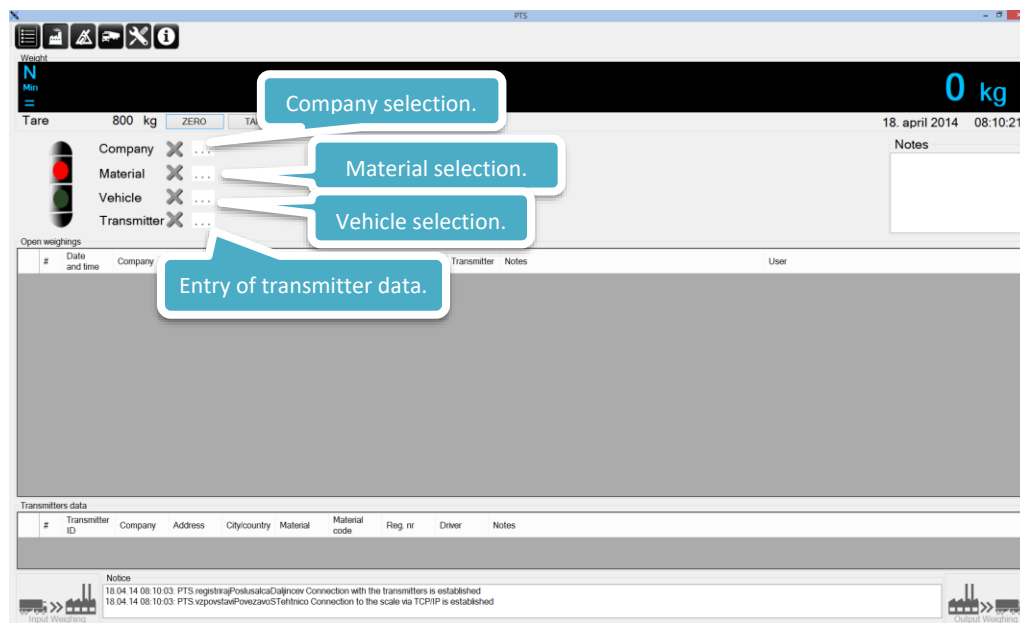
Usually we execute input/output weighing. That means that vehicle at entrance into company makes input weighing. Before exit we weigh vehicle again – output weighing. When we have both input and output weighing than weighing is finished. On weighing ticket there are all data where there is also automatically determined if the vehicle has delivered (input weighing mass is greater than output) or taken (output weighing mass is greater than input) the material.

In case, we have pre-set vehicle tare or there is tare on the balance than there will be only one weighing. Tare value is considered as empty vehicle mass. If you make input weighing with vehicle that has entered tare than this weighing will be treated as if somebody would deliver material to company. If you make output weighing with vehicle that has pre-set tare than this will be treated as if somebody would depart material from company. But we advise you not to use pre-set tare function because empty vehicle can vary a lot in connection with how much gas tanks is filled up, if driver changes etc..

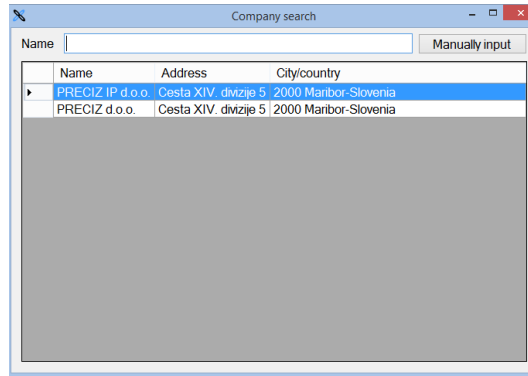
3.1. Entry/selection of data

Before we can start weighing procedure, we have to select/enter data in main mask first. Mandatory field is vehicle where we need to select one from the list or we enter its registration no.. Until this field is empty weighing is not possible. All other fields (company, material, etc.) are optional.

V kolikor vozilo, ki je pripeljalo material pripada podjetju, ki je vneseno v bazi podjetij le-to enostavno izberemo.



When we click on button . . . for company selection the following windows opens



In this window we can double click any company from the list to select it. If there is many companies we can also input search criteria into name field and list of companies will automatically show only results. If the company is not on the list we can also make manual input. This can be done that into field name we enter company name and press button Manual input.

NOTE: With manual weighing, we have to also enter address and city if you want them to be printed out on the report. For manual weighing, there is no statistics. Weighing's with manual data entry are intended for non-regular customers/suppliers.

NOTE: When you select company from the list, you will see only material and vehicles which belongs to this company when you will be selecting them. You can also access other by putting in search criteria.

When we select company, we go on with material and vehicle selection. Procedure is the same as for company.

3.2. Deletion/de-selection of data

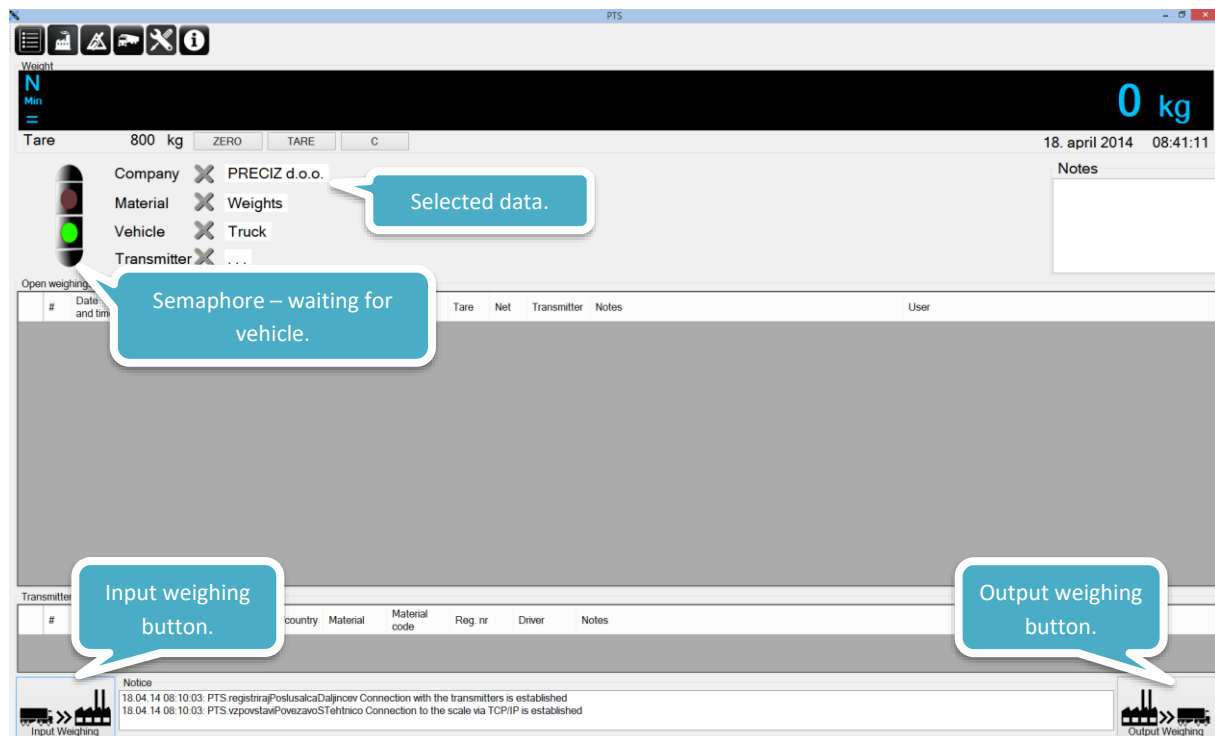
We delete entered data so that we press X before field, which data we want to delete. In question window we have to confirm deletion.

3.3. Execution of weighing

First we make data entry which is described in chapter 3.1.. When we finish entry we press input weighing button. On semaphore green light turns on which means that the vehicle now can drive on the scale. When we detect vehicle red light turn's on which mean that weighing is in progress and the driver must stop the vehicle on the scale. Now the program weights for three identical measurement's in interval of one second. When program has three identical, measurement's the green light turn on which means that the vehicle can leave the scale. When the vehicle leaves the scale, the red light is turned back on.

When the vehicle comes back for output weighing, we have to select proper input weighing and all data are set into selection fields. Now we press output weighing button and green light on semaphore turns on which means that the vehicle can drive on the scale. When we detect vehicle red light turn's on which mean that weighing is in progress and the driver must stop the vehicle on the scale. Now the program weights for three identical measurement's in interval of one second. When program has three identical measurement's the green light turn on which means that the vehicle can leave the scale. When the vehicle leaves the scale the red light is turned back on.

The weighing is now automatically saved into complete weighing database. If we have set to automatically print out weighing ticket also the weighing ticket is automatically printed out.



NOTE: When we select input, weighing entered data cannot be changed.

NOTE: In case we at first weighing press output weighing button the current weight and data will be saved as output weighing and tare value will be deducted. Such weighing is treated as output weighing which means that material has been taken from company.

NOTE: If you in context menu on the list of open weighing's press complete the selected input weighing the weighing will finish and weighing will be treated as input weighing which means that material has been delivered to the company.

NOTE: Into note field we can input any note. Notes will be also printed on weighing ticket.


NOTE: We can delete any open weighing by selecting it and pressing delete key.

NOTE: In case that at the output weighing there was an error and we want to repeat output weighing we press in main menu weighing's and select the weighing which output weighing we want to execute again and on the context menu we press re-open input weighing. These weighing will now again be visible on the list of open weighing's.

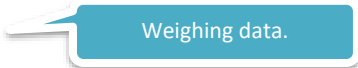
3.4. Weighing ticket

Example of input weighing printout:

PRECIZ IP d.o.o.
 Cesta XIV. divizije 5
 2000 Maribor
 T: 02 320 33 46 | F: 02 320 33 48
 E: info@preciz-ip.eu | www.preciz-ip.eu



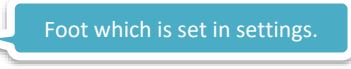
Weighing ticket nr:14-000063
 Reg. nr: MB FT-970
 Driver: Denis Fajertag
 Scale operator: administrator
 Weighing at - 22.4.2014 8:21:55
 gross: 720 kg
 Tare: 500 kg
 Net: 220 kg



Difference (transported): 220kg


Operator signature: _____

Driver signature: _____

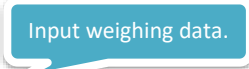
All rights reserved! 

Example of input/output weighing printout:

PRECIZ IP d.o.o.
 Cesta XIV. divizije 5
 2000 Maribor
 T: 02 320 33 46 | F: 02 320 33 48
 E: info@preciz-ip.eu | www.preciz-ip.eu



Weighing ticket nr:14-000057
 Company: PRECIZ IP d.o.o., Cesta XIV. divizije 5, 2000 Maribor-Slovenia
 Material: PSSM
 Reg. nr: MB FT-970
 Driver: Denis Fajertag
 Scale operator: administrator




Input Weighing - 22.4.2014 7:56:23
 Input weight: 1.000 kg

Output Weighing - 22.4.2014 7:56:50
 Output weight: 3.000 kg

gross: 3.000 kg
 Tare: 1.000 kg
 Net difference (transported): 2.000 kg

Operator signature: _____

Driver signature: _____

All rights reserved! 

4. Settings

In program settings, we can:

- Set zero tolerance, minimum, maximum, use of Dini Argeo indicator etc...
- add, edit or delete users,
- set printing setting – header, footer, auto printing, etc...,
- set communication with scale and buttons,
- set communication with additional indicators,
- add, edit or delete transmitters etc...

4.1. Program settings

In program settings tab we can choose language, we can set minimum and maximum of the scale (weighing's with weight below min and above max will not be stored), we can also set zero tolerance (weighing's out of tolerance are not possible) and we can also set maximum vehicle weight. If weight of vehicle is above maximum vehicle weight than red note is printed on the weighing ticket.

Under section other settings we can also set to automatically run application at Windows start (note user will still have to login).

We can also enable demo mode for testing application. When demo mode is enabled and logged user is admin than you can click in weight with left mouse button and weight will increase and with right mouse button will decrease.

If you disable tare than entering preset tare will not be possible.

If you check require authorization at application exit than logged use will have to enter password when he want's to close application.

If you enable use of Dini Argeo indicator than also transmitter code will be sent to display to show it to the driver and also other messages like error, wait etc...

You can also select CSV file where you want weights to be automatically exported for further processing.

4.2. Users

At program startup user must login. With login we identify user which executes weighings. We can freely addm edit and delete users in Users tab under settings. For every user we can also set right's which he has.

4.3. Printing

In printing tab we set default printer and we can also check option if we want to automatically printout weighings and no. of copier. We also set paper type. If choose A4 two weighing than two weighings will be printed on one A4 paper. Here we also set printing header, footer and logo.

4.4. Scale

4.4.1. Communication

Communication with scale can be with RS232 (serial interface) or Ethernet (TCP/IP).

If we select serial interface than we have to set also the same serial interface parameters. Those parameters are usually found in manufacturer manual of indicator.

If you select TCP/IP than you have to enter IP and port on which we listen for scale data. IP and port on the scale must be pre-configured.

4.4.2. Protocol

With protocol we define the way how program accepts data and parse out weight, tare, etc...If protocol is not on the list of saved protocols than we have to create new one.

Before we start configuring new protocol we need to properly configure communication with scale. When we have set communication with scale than received string will visible in bottom left corner. Also string length will be written. We can copy this string with right mouse click and than we can count places in Notepad for example. Please remember that scale must continuously sent data.

NOTE: to save new protocol first press button Save as new protocol and then enter it's name. When you have saved protocol you have to set string terminator which is usually CRLF so that you will be able to accept data from string.

In Buttons tab you can define up to six buttons which can be used to send commands to the scale. Filed text of command is used to enter command title and content is string which will be send to scale (terminator will be automatically added base on string terminator).

4.5. Additional display

We can also define two additional displays to which we can sent data over serial interface or Ethernet. Into field string to send you can write anything and it will be sent. Where you want that mass will be appear there you write [masa] and where you want unit to appear you write [enota].

If you want to send also string for semaphore to the place where you want character to appear you write [samfor] and in string there will be printed R for red light and G for green light.

You can also time interval in which string is sent.

That transmission to additional display will be successful we need to properly set communication.

4.6. Transmitters

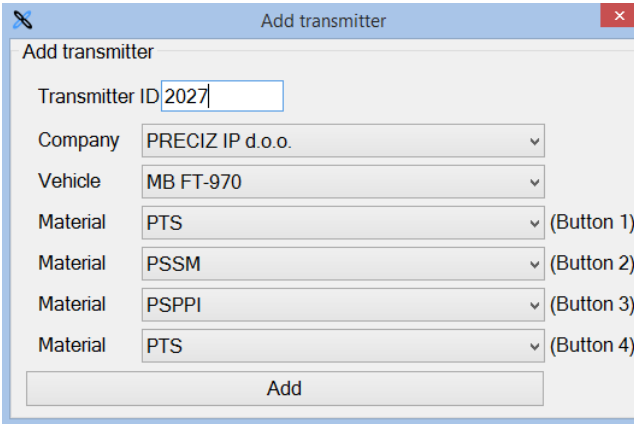
Transmitters enable weighing execution without scale operator. Use of transmitters is extremely useful because we do not need scale operator, scale can be on remote location and executing weighing's with transmitters very quick and still all the weighing's are stored in computer. Basically weighing process is automated.

4.6.1. Transmitter's for regular drivers

Transmitters can be used for regular drives and for guest. For regular drivers we add new transmitter under program setting in tab Transmitters. Here we set company and vehicle to which it belongs and for every button on transmitter we can also set type of material so with press of different button driver can choose material that he delivered or transported.

NOTE: regular driver are the one that are always driving the same truck.

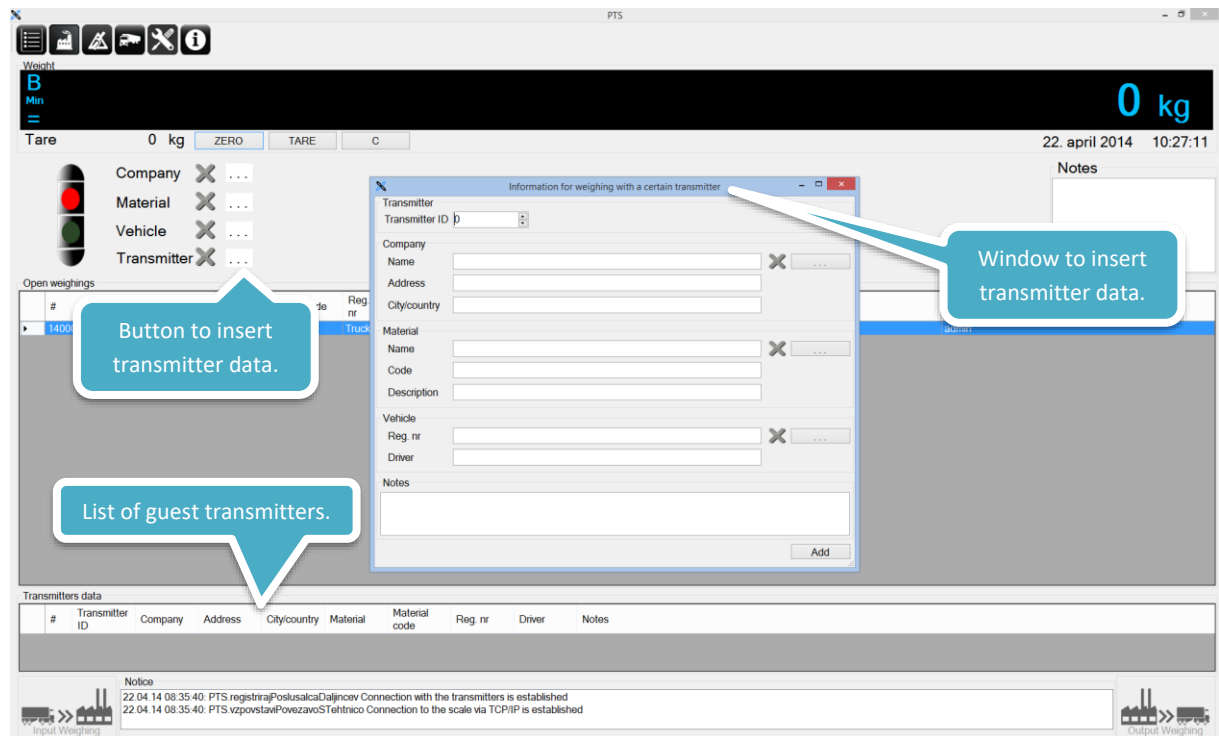
Transmitter must be added before it can be used. When we add new transmitter we have to insert transmitter ID which is labelled on the transmitter than we select company and vehicle and then we also link material to each button. If we do not want different materials than we set the same material for all buttons.



Field	Value
Transmitter ID	2027
Company	PRECIZ IP d.o.o.
Vehicle	MB FT-970
Material (Button 1)	PTS
Material (Button 2)	PSSM
Material (Button 3)	PSPPI
Material (Button 4)	PTS

4.6.2. Transmitter's for guest's

In case we have driver that deliver material only once than we can set data for transmitter at the entrance into company. Manual data entry for transmitter enables to enter transmitter ID, company data, material data, vehicle data and notes. All data can also be selected from databases. All entered data are than used when someone makes weighing with transmitter. Manual entry of transmitter data is done so that we press . . . next to transmitter in main program mask. New window is opened to which we insert data. Required data is transmitter ID and registration number of vehicle. When we press button Add entered data appear in transmitters data list.



Transmitter which we use for guest must not be in database of transmitter for regular drivers and it must not be in database for transmitter with predefined data and vehicle must not have open weighing.

With double click on the transmitter in transmitters data list we can edit entered data.

With selection of transmitter in transmitters data list and pressure of Delete key we can delete guest transmitter.

NOTE: once the weighing with guest transmitter is finished its data are automatically deleted from transmitters data list so it can be used for new guest.

Guest transmitters can also be used for regular drivers who often change vehicle or company for which they drive material. In this case guest transmitter are very useful if scale is on remote location and operator does not see it directly and it is hard for him to show driver when to go on the scale and when he can go off (with transmitter this is done automatically by using semaphore).

Guest transmitters are also useful because you do not have to have operator the whole time by the scale but just when driver comes to company to enter transmitter data and to give driver guest transmitter.

With transmitter, you also prevent mistake by choosing wrong vehicle at the output weighing. With transmitter, weighing is more transparent and quicker.

4.6.3. Weighing with transmitter

Weighing with transmitter is made so that the driver comes to the scale and stops before stop line/sign. Than driver press button on transmitter (if every button has different material then he has to press material which he deliver or depart). If there are Dini Argeo indicators used than on the display is displayed C-XXXX where XXXX is transmitter code for 5 seconds. When transmitter is registered then green light is turned on. From this moment driver has 10 minute time to make a weighing (time to wait can be set in settings of program). Driver can now drive on to scale. When vehicle is detected and weight is stable than red light turns on which means that weighing is in progress and the vehicle must be stopped. After three same measurement's the weighing is finished and green light is turned back on which means that vehicle can leave the scale. When the scale return to zero tolerance than red light is turned back on and now another weighing can be made.

First weighing will be stored as input weighing and second as output weighing.

If during weighing process another driver attempts to make weighing and we use Dini Argeo indicators than there is message Wait displayed on the display.

5. Graphic illustration of weighing

1 – scale in hibernation (waiting for vehicle)



2 – vehicle drivers to the scale and stop before STOP sign (with transmitter now driver press button)



3 – green light (driver has authorization to drive on the scale)



4 – vehicle is on the scale and we wait him to stop



5 – when vehicle stops we begin weighing process



6 – when weighing is finished green light turns back on (vehicle can leave the scale).



7 – vehicle has left the scale



8 – when scale return to zero tolerance than red light is turned back (now new weighing is possible)



6. About program

Manufacturer: PRECIZ d.o.o.
Cesta XIV. divizije 5
2000 Maribor
T: 00386 [0]2 320 33 47
F: 00386 [0]2 320 33 47
E: info@preciz.si
W: <https://preciz.si>

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