



# **DISPENSING CONTAINER AdBLUE**

## **TATSUNO EUROPE**

### Quick User Guide

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## INTRODUCTION

This Quick User Guide is intended for the users of TATSUNO EUROPE dispensing AdBlue containers and owners of service station where dispensing containers are installed and operated. TATSUNO EUROPE a.s. recommends thorough reading of this manual. The manual must be available to the container attendant during operation and regular maintenance of containers.

- Keep this manual together with the attachments for the entire time the device is in use
- Make it available to other owners and users.
- Perform updates of regulations and manuals ([www.tatsuno-europe.com](http://www.tatsuno-europe.com))



The contents of the manual at the time of its release corresponds to reality. The manufacturer reserves the right to alter the technical specifications of the device or its properties without a written notice, due to its development and continuous improvement. All rights are reserved. No part of this manual may be reproduced or transferred without a written approval of TATSUNO EUROPE a.s.





### Document revisions

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Revision 07 / 8.8.2023	English version of the original document UP046-CZ rev 7	Milan Berka
Revision 08 / 15.11.2023	Added Appendix 1.3. Safety rules for TATCON container station location	Milan Berka
Revision 09 / 23.4.2024	Modified Appendix 1.3	Milan Berka

**NOTICE** *Any modification of the container may invalidate the device certification. Refer to certification documents and manufacturer instruction manuals if any modification of the wiring and/or device is considered*

Each container is properly tested in the factory in terms of its function, safety, and metrology. The delivery of each container also contains certification documents that must be submitted by the operator on demand.

### CAUTION

-  **Installation of this equipment must be performed by qualified authorized personnel.**
-  **Watch for any leaks. If fuel leaks due to a leak, disconnect the supply voltage and contact the service organization.**
-  **Electrical installation must be carried out by qualified professionals.**
-  **Use appropriate protective equipment when handling the device.**

## 1. DISPENSING CONTAINERS TATSUNO EUROPE

### 1.1. DESCRIPTION OF DISPENSING CONTAINERS

All TATSUNO EUROPE dispensing containers manufactured under the TATCON brand are equipped with high-quality Japanese hydraulics from TATSUNO Corporation (hereinafter referred to as TATSUNO) and a powerful, reliable electronic counter from the Czech company TATSUNO EUROPE (hereinafter referred to as TE). All dispensing containers work both in manual mode - independently, off-line, and in automatic mode, when they are remotely controlled from the gas station kiosk and connected to the cash register (POS) using a data line. The outer shell, which includes the lower part, the upper part, the door, and the roof of the container, is made of laminate. The inner container is made of polyethylene reinforced with painted steel reinforcements. All containers have body parts (covers, doors, lids, etc.). Each dispensing container is equipped with an electronic counter with self-diagnostics and a display showing the pumped amount in currency units of the country of installation, the amount of fuel in litres and the unit price of the liquid (AdBlue®). For containers intended for non-public dispensing, the display only shows the amount of fuel in litres. The standard colour of TATSUNO EUROPE containers is white (RAL9010).

Dispensing containers have a hydraulic module equipped with a piston flow meter from the Japanese company TATSUNO type FM-1022, or LOBE meter FF-1141, or a paddle meter Badger Meter RCDL-M25 (for containers exclusively for non-public dispensing). These are analogues of standard fuel meters in a more chemically resistant stainless steel version (internal stainless parts + external surface treatment). The measuring unit consists of the meter itself with a pulser, a 70 µm stainless steel solid particle filter with surface treatment and a control electromagnetic valve in stainless steel. The pumped medium passes through the filter, meter, and control valve, continues into the hose, through the sight glass (if required) into the container nozzle, from where it is pumped into the AdBlue® tank in the vehicle. Dispensing hoses are made of high-quality chemically resistant rubber in an antistatic design. AdBlue dispensing containers are supplied with dispensing hose reels and automatic AdBlue® guns as standard. Depending on the place of installation and the customer's request, the interior of the dispensing container can be heated so that the temperature inside does not drop below 0°C.

#### Container variants:

a) according to the number and orientation of the dispensing hoses

- left-hand (/L), hose located on the left side from the vehicle's arrival side, e.g., TATCON3000/L
- right-hand (/R), hose located on the right side from the vehicle's arrival side, e.g., TATCON3000/R
- double-sided (/D), two dispensing hoses located on the left and right side, e.g., TATCON3000/D
- with dispensing hose coming out of the front (/F), e.g., TATCON3000/F

b) according to the maximum volume of stored liquid

- 3000L (TATCON3000)
- 6000L (TATCON 6000)

## 1.2. BASIC TECHNICAL PARAMETERS

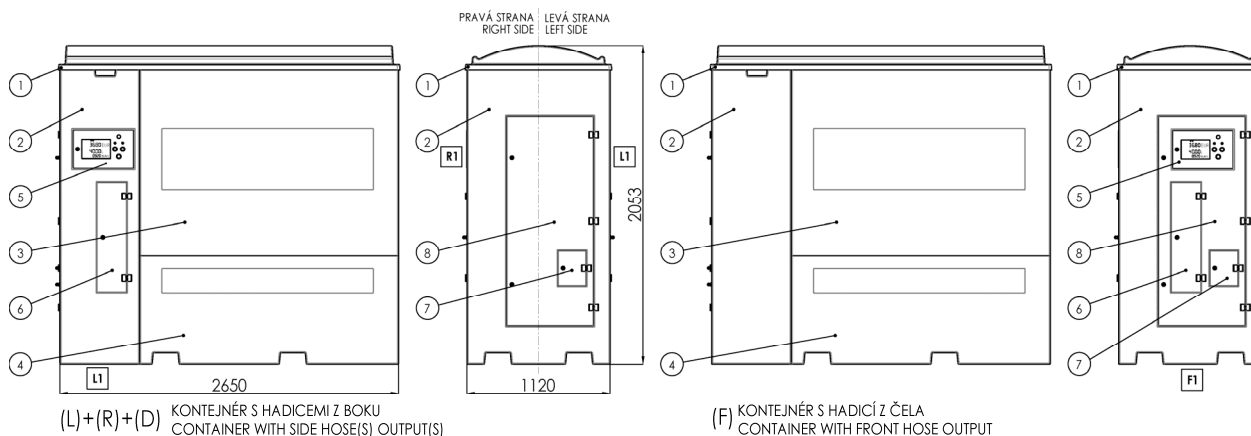
Table 1 – AdBlue® dispensing containers

Pumping performance	Standard	LV (passenger cars)*
Maximum flow rate $Q_{max}$ [L/min]	40	10
Minimum flow rate $Q_{min}$ [L/min]	4	4
Lowest metering MMQ [L]	2 / 5**	2 / 5**
Maximum working pressure [MPa]	0.3	
Minimum working pressure [MPa]	0.1	
Maximum unit price (number of digits)	9999(4) or 99999(5)***	
Maximum amount to pay (number of digits)	999999(6) or 9999999(7)***	
Maximum volume (number of digits)	999999(6) or 1999999(6.5)***	
Scale interval [L]	0.01	
Display type	Electronic	
Type of delivered fluid	AdBlue® (32.5% aqueous urea solution according to DIN 70070 and ISO 22241)	
Filtration of mechanical particles	Input filter >70µm	
Fluid temperature range [°C]	0 to +40	
Ambient temperature range [°C]	0 to +40 (version without any heating)	
Accuracy class	0.5	
Mechanical class	M1, M2 for counters PDEX5 and TBELTx	
Electromagnetic class	E1, E2 for the counter PDEX5	
Humidity	Condensing	
Location	Open	
Measured unit	Volume [L] or volume at 15 °C [L]	
Electronic counter	TBELTx	PDEX5
Program version (W&M check sum)	1.01 (8CA4)	1.01 (4573), 1.02 (dbd2FFA4)
Calculator powering	230V ± 10%; 50Hz; max. 300VA	
Electro-magnetic valves	Proportional or two-state; + 24VDC / max.1A	
Storage tank volume	TATCON 3000 = 3000L; TATCON 6000 = 6000L	

\*The LV measuring system contains a ZVA AdBlue delivery nozzle that limits the maximum flow to 10 L/min

\*\*When the Elaflex hose is installed then MMQ = 2L; if the IVGBLUE hose is installed, MMQ = 5L

\*\*\* Data transmission of the entire contents of the display with the number of digits 7/6.5/5 is only possible using the extended communication protocol (8/8/6)



Position	Description
1	Container lid
2	Hydraulic cover
3	Storage tank cover
4	Foundation cover
5	Display mask sheet
6	Dispense hose door
7	Filler neck door
8	Hydraulic doors

## 2. CONTAINER SETTING AND BASIC FUNCTION

Container setting is performed by the set of setting parameters via which it is possible to control functional parameters of the container, totally change the mode and behaviour of the container in different situations. The parameter values can be viewed and changed using the remote IR (infrared) controller.

### 2.1. CONTAINER COUNTER

The basic control unit of the dispensing container is an electronic counter, which is stored together with the display units inside the lockable counter cabinet. The table on the right describes the basic parameters of the PDEX5 counter used in the TATSUNO EUROPE dispensing container.

Counter type	PDEX5
Year/month of first installation	5/2018
Use	all types of containers
OIML verification	OIML R117
MID Evaluation certificate	ZR141/18-0175 (ČMI Brno)
Software Validation (WELMEC 7.2)	8553-PT-S0001-18 (ČMI Brno) 6011-PT-SW017-20 (ČMI Brno)
How to set parameters	Remote controller PDERT-XS, service PDERT-XO, manager
Displaying the program version + CRC	after switching on or in the parameter M0-P05-1 (version) M0-P05-2 (CRC)
Protection of metrological parameters	password + DIP switch
Type of communication protocol	PDE (RS485)

### 2.2. PDEX5 COUNTER

The PDEX5 electronic counter is set using the remote controller. The yellow service remote controller PDERT-5S is intended for service engineers authorized by the container manufacturer. This remote controller allows to perform complete settings of all container parameters. The silver remote controller PDERT-5O is intended for fuel station managers and this remote controller allows them to perform:

- reading non-resettable electronic litre totalizers of all delivery hoses
- reading and resetting daily electronic litre and financial totalizers of all hoses
- setting of unit prices of products (in manual operation)
- reading and setting of operating parameters of the container

The setting mode may be called up at the container by a below stated procedure only in the condition when the container is at rest - i.e., in the condition of “finished delivery”, all nozzles hung, all sales finished. There are two access modes:

- ▣ The **operator mode** (attendant mode) is designed for the operators of the service station. It only allows you to read the values of the electronic totalizers and values of the basic parameters of the containers. It does not allow you to reset or change the parameter values.
- ▣ The **manager mode** is designed for the manager of the fuel station. It allows you to read the values of the electronic totalizers and set the basic operating parameters of the container. The access to the Manager mode is protected by password.

#### 2.2.1. DESCRIPTION OF PDERT-5O REMOTE CONTROLLER

The keyboard of the PDERT-5O remote manager's controller is described on Figure 1. When using the remote controller, it is necessary to move the remote controller to about 1 meter from the centre of the display of the dispensing container. The management mode is started by pressing the <M> button, the operator button <A>. The set and read values are shown on the display. In addition to setting and reading the values of the electronic counter parameters, the remote control can also be used for the following operating functions:

- ▲ **Pre-selection of the delivered amount/volume.** Keys <0>, <1>, ... <9> can be used just like the pre-set keypad to set the volume/amount pre-selection on the container.
- ▲ **Unlocking the container after delivery.** If the container is in the manual mode with the blocking after delivery, you can unlock the container with the <0> key, or only one side with the <C> key.
- ▲ **Unlocking the container after an error.** When the container is in the manual mode and an error occurs on the container, the error status can be cancelled by pressing the <0> key or by lifting and hanging the nozzle.

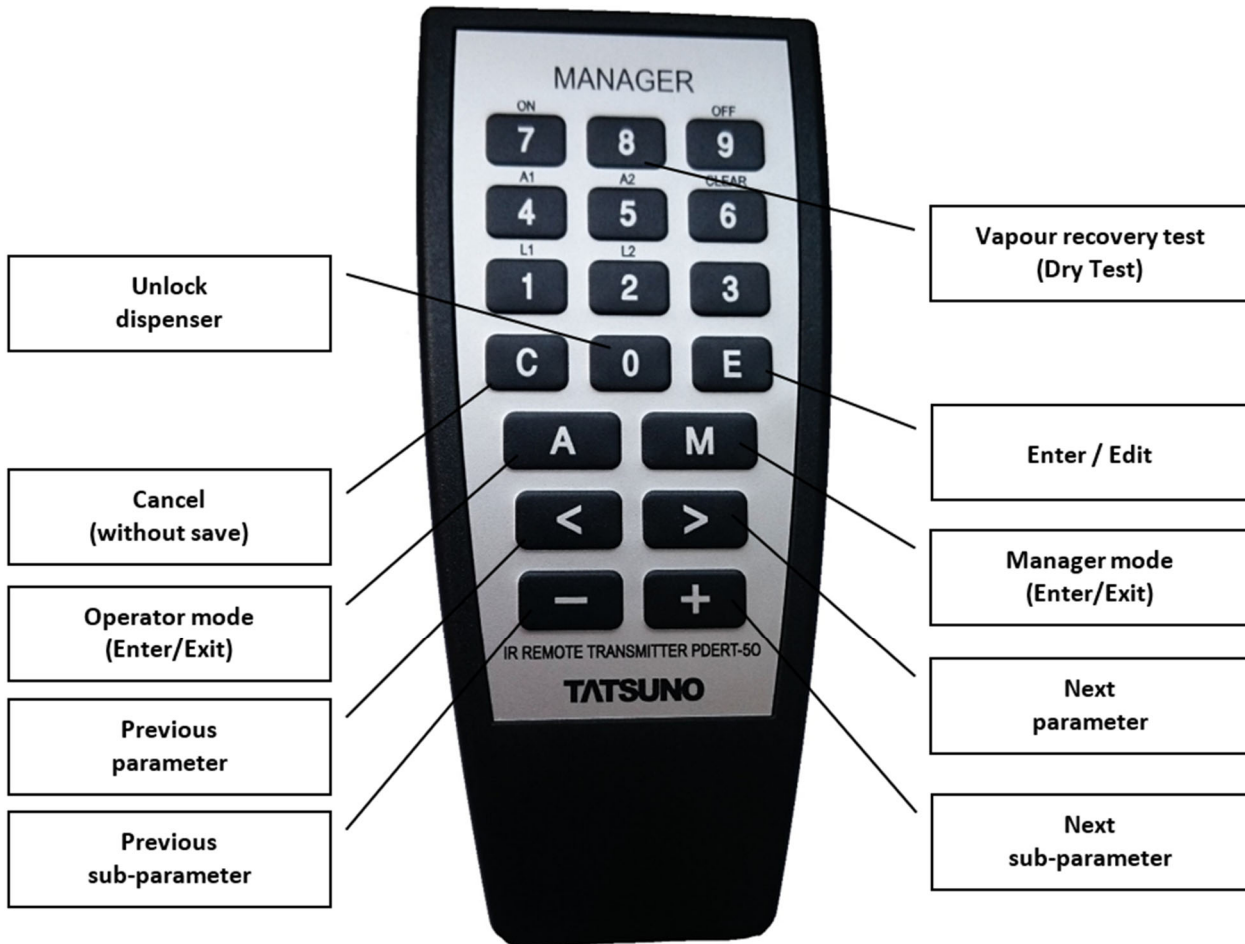
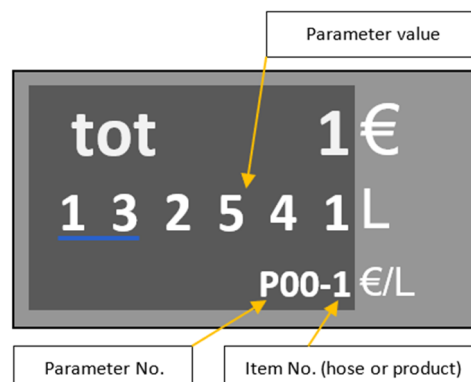


Figure 1 - Description of keys of the PDERT-50 remote controller

### 2.2.2. DISPLAYING DATA IN THE SETTING MODE

All data is displayed on the container display in setting modes. While controlling using the remote controller the data is displayed on the display of that side where the setting mode was called up from by the remote controller. Individual parameters are shown as follows on the display:

No. of parameter: P00  
 Item No.: 1 (dispensing hose order)  
 Parameter value: 1132541 (volume in centilitres)





### 2.2.3. OPERATOR MODE

The operator mode of the PDEX5 counter is started by pointing the manager’s remote controller on the container display from the distance of approx. 1 m from the container display centre and by pressing the <A> button. **All delivery nozzles on the container must be hung in advance and the sale on the container must be finished (paid).** After calling up the Attendant mode the value of the first parameter is displayed. Parameters and their items may be switched by using the <>> and <+> keys. The operator mode allows to view **but not change** the values of all parameters listed below, see table below.

Parameter	Description
P00	Non-resettable quantity totalizers - volume or weight
P01	Daily quantity totalizers - volume or weight
P02	Daily amount totalizers – in currency unit

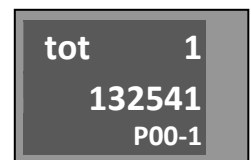
Individual parameters will be described further. The operator mode is finished by pressing <M> or <A> keys. The mode is finished automatically if no remote controller button is pressed for 60 seconds.

### 2.2.4. MANAGER MODE

The manager mode is started by pointing the manager’s remote controller at the container display from the distance of approx. 1 m from the container display centre and by pressing the <M> button. **All delivery nozzles on the container must be hung in advance and the sale on the container must be finished (paid).** After calling up the manager mode the container display shows a prompt for entering the 4-digit access password: Due to keeping the password confidential the digits entered are shown as dashes. The following default access password is set in the factory: “1111”. **Example:** Gradually press <M> and <1111> and <E> keys.

**NOTE** If the fuel station manager forgets the valid access password, then he/she must contact the authorized service staff who can set a new one.

After entering the valid access password, the display shows the value of the first parameter P00-1. Now it is possible to browse parameters by using the <>> key or by entering the **number of searched parameter** and confirm with the <E> key to go directly to the desired parameter. The Manager mode allows to view and change the values of parameters listed below, see table below.



Parameter	Description	Parameter	Description
P00	Non-resettable quantity totalizers - volume or weight	P15	Daily totalizers reset (P01 and P02)
P01	Daily quantity totalizers - volume or weight	P16-P19	not used
P02	Daily amount totalizers – in currency unit	P20	Error message codes history
P03	Unit price (manual/standalone mode)	P21	Error message codes statistics of filling point A
P04	Date and Time	P22	Error message codes statistics of filling point B
P05	Program version + checksums	P23	Error message codes statistics of filling point C
P06-P07	not used	P24	Error message codes statistics of filling point D
P08	Manager mode access password	P25	Last fuelling history of filing point A
P09	not used	P26	Last fuelling history of filing point B
P10	Serial numbers of peripheral units (processor, displays, ...)	P27	Last fuelling history of filing point C
P11	not used	P28	Last fuelling history of filing point D
P12	Container control mode	P29	Maintenance history
P13-P14	not used	P30-P32	not used

The manager mode is finished by pressing <R> or <A> keys. The mode is also finished automatically if no remote controller button is pressed for 60 seconds. When leaving the setting mode, the message **SETUP End** appears on the display, and then the last fuelling transaction is displayed (the last state of the display before entering the manager mode).



### 2.2.5. NON-RESETTABLE VOLUME TOTALIZERS (P00)

Electronic totalizers for all dispensing hoses (nozzles) are stored in the memory of the electronic counter. These totalizers are **non-annullable** and indicate how much volume was pumped out by individual dispensing hoses.

Counter PDEX5 v5.S	
Parameter	Meaning
P00-1	quantity of the liquid delivered by hose 1 on side A in centilitres (x 0.01L)
P00-2	quantity of the liquid delivered by hose 2 on side B in centilitres (x 0.01L)

Counter PDEX5 v5.L	
Parameter	Meaning
P00-1	quantity of the liquid delivered by hose 1 on side A in centilitres (x 0.01L)
P00-5	quantity of the liquid delivered by hose 5 on side A in centilitres (x 0.01L)
P00-6	quantity of the liquid delivered by hose 1 on side B in centilitres (x 0.01L)
P00-10	quantity of the liquid delivered by hose 5 on side B in centilitres (x 0.01L)

**NOTE** The number of totalizers displayed in parameter P00 is determined by the configuration of the dispensing container.

### 2.2.6. DAILY QUANTITY (P01) AND AMOUNT (P02) TOTALIZERS

Electronic daily totalizers for all dispensing hoses (nozzles) are stored in the memory of the electronic counter. **These totalizers can be reset at any time using parameter P15** (see description below). They indicate what total volume and what total amount of money has been delivered by each dispensing hose since the moment of their last reset. The value of the totalizer is displayed to two decimal places. Higher orders are displayed on the first line of the display, lower orders on the second row of the display. Resettable totalizers of the amount are always displayed in such a way that they have one decimal place less than the total amount displayed on the display when drawdown. Higher orders are displayed on the first line of the display, lower orders on the second row of the display.

Counter PDEX5 v5.S	
Parameter	Meaning
P01-1	quantity of the liquid delivered by hose 1 on side A in centilitres (x 0.01L)
P01-2	quantity of the liquid delivered by hose 2 on side B in centilitres (x 0.01L)

Counter PDEX5 v5.L	
Parameter	Meaning
P01-1	quantity of the liquid delivered by hose 1 on side A in centilitres (x 0.01L)
P01-5	quantity of the liquid delivered by hose 5 on side A in centilitres (x 0.01L)
P01-6	quantity of the liquid delivered by hose 1 on side B in centilitres (x 0.01L)
P01-10	quantity of the liquid delivered by hose 5 on side B in centilitres (x 0.01L)

Counter PDEX5 v5.S	
Parameter	Meaning
P02-1	amount of the liquid delivered by hose 1 on side A in currency unit
P02-2	amount of the liquid delivered by hose 2 on side B in currency unit

Counter PDEX5 v5.L	
Parameter	Meaning
P02-1	amount of the liquid delivered by hose 1 on side A in currency unit
P02-5	amount of the liquid delivered by hose 5 on side A in currency unit
P02-6	amount of the liquid delivered by hose 1 on side B in currency unit
P02-10	amount of the liquid delivered by hose 5 on side B in currency unit

**NOTE** The number of totalizers displayed in parameters P01 and P02 is determined by the configuration of the container.

### 2.2.7. JEDNOTKOVÁ CENA PRODUKTU (PARAMETR 03)

This feature allows you to view and set current unit prices (i.e., one litre of liquid). The unit price is set on the display at the first lift of the delivery nozzle and reset of the display if the container works in the **manual mode**. Setting is made by pressing the <E> key and entering the price in the <PPPP> format and confirming by the <E> key. The decimal point is not entered. E.g., unit price 1.03 €/L is entered as number 0103, etc.

Counter PDEX5 v5.S		
Parameter	Meaning	Factory setting
P03-1	unit price of the liquid delivered by hose 1 on side A	0,00 €/L
P03-2	unit price of the liquid delivered by hose 2 on side B	0,00 €/L

Counter PDEX5 v5.L		
Parameter	Meaning	Factory setting
P03-1	unit price of the liquid delivered by hose 1 on side A	0,00 €/L
P03-5	unit price of the liquid delivered by hose 5 on side A	0,00 €/L
P03-6	unit price of the liquid delivered by hose 1 on side B	0,00 €/L
P03-10	unit price of the liquid delivered by hose 5 on side B	0,00 €/L

**NOTE** The number of dispensing hoses/nozzles displayed in parameter 03 is conditioned by the version of PDEX v5 counter and the configuration of the dispensing container. If you change the unit price setting, the change will not take effect until the next pick-up of the container nozzle.

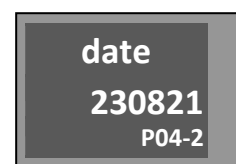
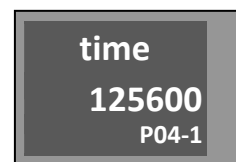
**NOTICE** Values set in the P03 parameter are valid **in the manual mode only**. If the container is connected to the central control system of the fuel station, then the unit price is set directly by the control system before each delivery. In such case the values of the P03 parameter are non-functional.

**NOTICE** The container **does not allow deliveries with a zero value of the unit price**. In such case, after lifting the delivery nozzle the container display shows the error message E30 and the delivery does not start.

### 2.2.8. CURRENT TIME AND DATE (P04)

This function allows to view and set the current time and date. The setting is made by pressing the <E> key by entering the time/date in the correct format and confirming with the <E> key.

Parameter	Meaning	Factory setting
P04-1	Time setting, format HHMMSS (i.e., 125600 = 12:56:00)	0:00:00
P04-2	Date setting, format DDMMYY (i.e., 230821 = 23. 08. 2021)	1.1.2001

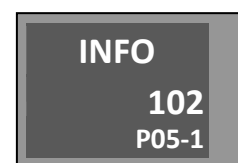


**NOTICE** 168 hours after the power supply to the dispensing container is interrupted, the clock will be reset to zero. The time and date values will go to factory settings and need to be set!

### 2.2.9. DISPLAYING THE PROGRAM VERSION AND CHECK SUMS (P05)

This function shows the number of the program version of the dispensing container counter and different check sums. These values are intended for metrology authorities and authorized service engineers. The meaning of the individual parameters is described in the table below.

Parameter	Meaning
P05-1	Version of the metrologically relevant part of the program. It is specified in the type certificate (e.g., 102 = version V1.02)
P05-2	CRC (check sum) of metrologically relevant part of the program. It is specified in the type certificate (e.g., dbd2 FFA4)



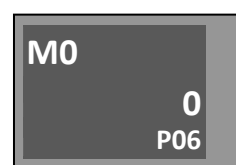
Parameter	Meaning
P05-3	Version and release of the whole program (e.g., 1.02 release 14)
P05-4	CRC (check sum) of the whole program (e.g., 27E6 622d)
P05-5	CRC (check sum) of the temperature sensors unit PDEINP1 program (for temp. sensors 1 to 4). If not present „----“ is displayed
P05-6	CRC (check sum) of the temperature sensors unit PDEINP1 program (for temp. sensors 5 to 8). If not present „----“ is displayed
P05-7	Date and time the program compilation. The first line shows the time (hhmmss) and the second the date (DDMMYY).
P05-8	CRC of the program of the pressure sensors unit PDEDPS with address 1. If not present, "----" is displayed
P05-9	CRC of the program of the pressure sensors unit PDEDPS with address 2. If not present, "----" is displayed
P05-10	CRC of the program of the pressure sensors unit PDEDPS with address 3. If not present, "----" is displayed
P05-11	CRC of the program of the pressure sensors unit PDEDPS with address 4. If not present, "----" is displayed

**NOTE** Metrologically relevant data P05-1 and P05-2 also appear on the display for a while after the power on.

### 2.2.10. MODBUS INTERFACE ACTIVATION (P06)

The modbus interface (diagnostic data line) allows service organizations to remotely diagnose containers. Parameter P06 allows to activate the Modbus interface by entering a valid key (eight-digit code).

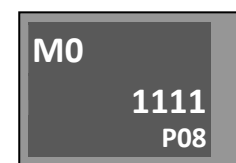
Parameter	Meaning	Factory setting
P06=0	The Modbus license is not valid. Modbus interface is not active	0
P06=1	The Modbus license is valid. Modbus interface is active	



### 2.2.11. MANAGER MODE ACCESS PASSWORD (P08)

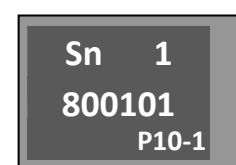
This function allows to view and change the password to the manager mode. The setting is made by pressing the <E> key by entering a new password in <PPPP> format and confirming <E>.

Parameter	Meaning	Factory setting
P08 = 1 to 9999	Manager mode access password	1111



### 2.2.12. SERIAL NUMBERS OF THE PERIPHERAL UNITS (P10)

The parameter is used to display the serial numbers of the connected peripheral units. The actual serial numbers of the peripheral units are compared with the numbers stored in the processor unit memory. If a mismatch is detected, an error message is displayed and fuel delivery is not allowed. The list of peripheral units is below.



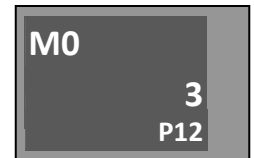
*Example: Parameter P10-1, serial number of the main processor unit SN: 18-00101 (see picture)*

Parameter	Peripheral unit	Error message in case of detected mismatch
P10-1	Main processor unit	
P10-2	Main temperature sensors unit PDEINP1 (for temp. sensors 1 to 4)	E83-1
P10-3	Auxiliar temperature sensors unit PDEINP2 (for temp. sensors 5 to 8)	E83-2
P10-4	Mass meter A	E84-1
P10-5	Mass meter B	E84-2
P10-6	Main displaying unit (Master) of filling point A	E80-1
P10-7	Auxiliar displaying unit (Slave) of filling point A	E80-2
P10-8	Main electromechanical totalizers unit (Master) of filling point A	E82-1
P10-9	Auxiliar electromechanical totalizers unit (Slave) of filling point A	E82-2
P10-10	Main displaying unit (Master) of filling point B	E80-1
P10-11	Auxiliar displaying unit (Slave) of filling point B	E80-2
P10-12	Main electromechanical totalizers unit (Master) of filling point B	E82-1
P10-13	Auxiliar electromechanical totalizers unit (Slave) of filling point B	E82-2
P10-14	Main displaying unit (Master) of filling point C	E80-1
P10-15	Auxiliar displaying unit (Slave) of filling point C	E80-2

Parameter	Peripheral unit	Error message in case of detected mismatch
P10-16	Main electromechanical totalizers unit (Master) of filling point C	E82-1
P10-17	Auxiliar electromechanical totalizers unit (Slave) of filling point C	E82-2
P10-18	Main displaying unit (Master) of filling point D	E80-1
P10-19	Auxiliar displaying unit (Slave) of filling point D	E80-2
P10-20	Main electromechanical totalizers unit (Master) of filling point D	E82-1
P10-21	Auxiliar electromechanical totalizers unit (Slave) of filling point D	E82-2
P10-22	Pressure sensors unit PDEDPS with address 1	E85
P10-23	Pressure sensors unit PDEDPS with address 2	E85
P10-24	Pressure sensors unit PDEDPS with address 3	E85
P10-25	Pressure sensors unit PDEDPS with address 4	E85

### 2.2.13. WORKING MODES OF THE DISPENSING CONTAINER (P12)

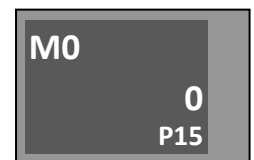
The function defines the type of work mode of the dispensing container.



Parameter	Meaning	Factory setting
12 = 0	<u>Automatic mode with remote control</u> The container is remotely controlled by a control computer/controller via a data line. It starts delivery only when an authorization command from the the control system (POS) is received. The authorization command includes the unit price of delivered liquid, preset maximum price or quantity, and the product number. Delivery will not start at zero unit price, zero preset amount/volume or if the product number does not match. In the event of a communication failure, the container locks up with error E18. Error E18 always occurs if no communication is detected for more than 3 seconds. After communication is established, the error disappears automatically.	0
12 = 3	<u>Manual mode</u> The container is completely independent, not remote controlled. The data line is blocked. The unit prices are controlled by parameter P03. If a special manual mode with locking after delivery or a mode with RELEASE signal control is not set, pumping will start immediately after the dispensing nozzle is picked up and the display is reset. Switching from automatic to manual mode can be blocked by switch SW1-2.	

### 2.2.14. DAILY TOTALIZERS RESET (P15)

The parameter is used to reset all daily totalizers of dispensing hoses. After setting the parameter value to <1> and confirming (<E> + <1> + <E>), all totalizers that are part of parameters P01 and P02 will be reset to 0. The message "done" appears and the parameter value goes to 0.

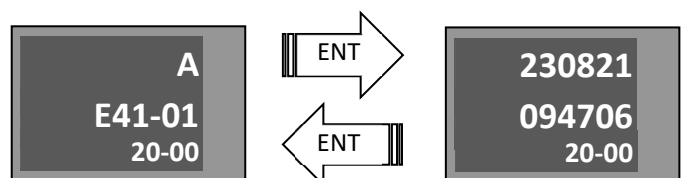


Parameter	Meaning	Factory setting
P15=0	Idle status	0
P15=1	Daily totalizers P01 and P02 reset to 0	

### 2.2.15. ERROR MESSAGE CODES HISTORY (P20)

The function is used to display the history of the last 100 error message codes that have occurred and displayed on the container. After switching to parameter P20, the display shows the code of the last error message (e.g., E41-01 pulse generator connection error on side A). After pressing the <E> key, the date and time of the fault will be displayed. After pressing the <+> key, the code of the penultimate error message code, etc. appears on the display.

Parameter	Meaning
(P)20-00	code of the last error
(P)20-01	code of the penultimate error
...	...
(P)20-98	99th error code in the sequence
(P)20-99	100th error code in the sequence



**NOTE** If two identical error message code occur in a row, then only the last one is displayed.

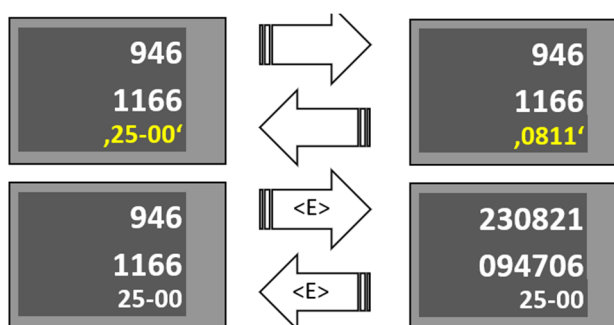
### 2.2.16. ERROR MESSAGE CODE STATISTICS OF FILLING POINT (P21, P22, P23, P24)

The parameter is used to display the cumulative numbers of individual error messages for a given filling point. The first line of the display shows the error message code and the second line the frequency of the error. After switching to parameter P21 (error message code statistics for filling point A), the display shows the fault frequency for error message code E0. After pressing the <+> key, the frequency of the error message code E1... etc... appears on the display.

### 2.2.17. LAST FUELLING HISTORY (P25, P26, P27, P28)

The parameter is used to display the last 100 fuellings (deliveries) for a given filling point. After switching to parameter P25 (last fuelling history at filling point A), the display shows the last fuelling transaction. The transaction price with the parameter number flashes on the unite price display. After pressing the <+> key, the penultimate fuelling..., etc. appears. After pressing the <E> key, the date and time of the end of the saved fuelling will appear on the display.

Parameter	Meaning
(P)25	Last fuelling history at filling point A
(P)26	Last fuelling history at filling point B
(P)27	Last fuelling history at filling point C
(P)28	Last fuelling history at filling point D



*Example:* Last fuelling at filling point A had a value of 11.66 L, 9.46 €, 0.811 €/L and was terminated 23.8.2021 at 9:47:06

### 2.2.18. MAINTENANCE HISTORY (P29)

The function allows to display the codes of the last 50 serial numbers of the remote controllers used to set the parameters of the counter.

## 3. OPERATION



### 3.1. INSTRUCTIONS FOR SAFE OPERATION

Before putting the dispensing container into operation, a revision of the electrical distribution and a check of the correctness of the connection must be carried out to avoid electric shock.



**WARNING** Containers are hygienically harmless for the customer and operator. It is advisable to protect your hands, for example, with eco-friendly gloves during normal maintenance and during deliveries. In case of skin contact, wash the affected area as soon as possible with soap and water. In case of eye contact, etc., seek medical attention. During deliveries, avoid inhalation of vapours of the pumped medium.

### CAUTION

- ⚠ **Technical and technological tools must meet approved requirements which consist of instructions for safe operation and maintenance and instructions for solving any emergency situation. Snow extinguishers must be available in the vicinity of AdBlue® containers in accordance with the safety guidelines.**
- ⚠ **Sale and delivery of AdBlue® must comply with prescribed rules; in case of danger, stop the operation of the container immediately.**
- ⚠ **It is necessary to keep the dates of regular inspections and checks of the entire AdBlue® container; persons without appropriate competencies, skills and qualifications must not handle the installed technology.**

-  **Regular maintenance and service must be carried out by a solely authorized service company.**
-  **The operator is responsible for keeping the AdBlue® container in its original and safe condition; any defect or unusual phenomenon must be immediately reported to a service company; in case of danger or delayed intervention the container must be shut down.**

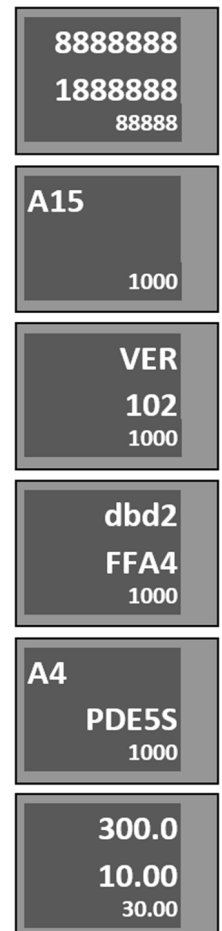
**CAUTION**

-  **The attendant must not perform any repairs of the device and change setting of safety fittings. Regular maintenance and service may only be performed by an authorized service company.**
-  **The attendant must keep the device in proper and safe order, immediately inform the service organization about the defect of abnormality during operation and immediately decommission the device in case of danger of default.**

**3.2. DISPENSING CONTAINER COMMISSIONING**

Switching on and off the dispensing containers is done in the main switchboard of the service station, where the power is supplied. Each dispensing container has one power outlet in the main switchboard - power supply for the electronic counter, switching and heating circuits. The power point is protected by a corresponding circuit breaker, which is used to switch the dispensing containers on and off. When the meter is powered on, the following processes occur:

- **test of display units** (displays). The backlight of the displays lights up and then all display segments are displayed (eights)) for approx. 1 second
- **time delay** when the counter is switched on. Time required to start the multimedia display. During the time delay, the displays show the filling point to which the display is connected A, B, C or D and the time in seconds remaining until the electronic container counter is activated. The length of the time delay (15) can be set by the counter parameter, by default it is without delay. The positions of switches SW1-1, SW1-2, SW1-3 and SW1-4 are displayed on the unit price line (1=ON; 0=OFF). If switch SW1-1 is in position 1, then the selected metrological parameters cannot be set on the counter.
- **processor unit test.** Ten-second test in which all functions and memory of the processor unit are checked. During the test, the side of the counter to which the display is connected (A, B, C or D) is displayed, and:
  - version of the metrologically relevant part of the program (VER 1.02),
  - checksum of the metrologically relevant part of the program (dbd2 2FA4).
  - processor board type PDE5S or PDE5L
- **setting the counter status** before switching it off. The information that would appear on the display before the counter was last turned off is displayed. If the counter was operating in manual mode, then it is possible to start pumping immediately after picking up the gun. If the counter was operating in automatic mode, it waits for communication with the control computer to be established and, if necessary, for the transaction to be terminated (payment), if it was not terminated regularly before switching off.



**Now the container is ready for AdBlue® delivery.**

**CAUTION** All AdBlue® containers are tested and metrological verified during production. The test medium for these tests is water, which even after draining the container partially adheres to the hydraulic system (pipes, meter, valve...) and can spoil the first AdBlue® deliveries to vehicles. **After installing the container, it is therefore necessary to flush the hydraulic system of the container with at least 10 to 20 L of AdBlue and then discard this initial dose - e.g., by diluting it with water and pouring it into the sewer system.**

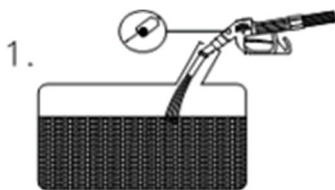
### 3.3. DISPENSING CONTAINER OPERATION

**NOTICE** *The operator is responsible for the operation of the service station and it is his duty to monitor the delivery of AdBlue® and, in the event that the customer performs unauthorized operations at the self-service containers, he must instruct the customer about proper handling. The operator is also obliged to mark the risk area of the fuel station with warning symbols. The service station operating instructions must be freely accessible to the customer for any information on basic obligations.*

#### 3.3.1. ADBLUE® DELIVERY

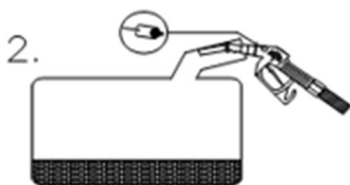
Starting the dispensing container is carried out by lifting the delivery nozzle from the nozzle cover which simultaneously automatically resets the electronic counter data. Then the pump electric motor is started and the liquid can be delivered. The delivering speed is controlled by the delivery nozzle. Ending the delivery is performed by closing the delivery nozzle (by releasing the control lever) and its subsequent hanging in the nozzle cover which shuts down the pump electric motor. The quantity delivered remains unchanged until the delivery nozzle is lifted again or until the payment.

**AdBlue® delivery.** The fluid measured by the meter is delivered into the delivery hose and the delivery nozzle bolted to the end of the hose. Self-service fuel stations use delivery stop-nozzles with a safety shutter. Using the control lever, the flow rate can be controlled until it stops. In the basic version, the delivery nozzle is supplied with a lever lock. At customer's request, a delivery nozzle is provided without a lock where the lever must still be pressed during delivery. When releasing the lever or dropping the delivery stop-nozzle out of the tank opening, the liquid flow stops. The stop function occurs when the tank is full after the sensor has detected the fluid level, the flow stops even when the control lever is depressed. The safety function works, for example, when the delivery nozzle is not properly handled, i.e., the discharge attachment is higher than 15 degrees from the horizontal plane upwards, the flow stops even when the control lever is depressed. After the stop function and the safety function it is necessary to release the control lever to automatically return to the basic position.



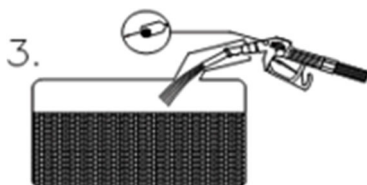
#### Correct position of the delivery nozzle during delivery

The delivery nozzle is almost vertical, the ball does not prevent the passage of air and the liquid flows.



#### Incorrect delivery nozzle position

The delivery nozzle is diverted from the horizontal position, the ball prevents the passage of air and the liquid does not run



In various designs of liquid tank inlet ports, it is necessary to find the optimal position of the delivery nozzle when the liquid still flows. Flow shut-off may also occur when the fuel flow from the delivery nozzle hits the wall of the tank neck. In that case, it is also necessary to find the optimal position.

#### 3.3.2. ELECTROMECHANICAL TOTALIZERS

On demand, TATSUNO EUROPE dispensing containers are equipped with electromechanical totalizers for monitoring the total amount of AdBlue® flown through each delivery hose. Totalizers are located on the container display. Each delivery hose or nozzle has one seven-digit electromechanical totalizer that shows the **number of complete litres delivered through the appropriate delivery hose.**



### 3.3.3. CONTAINER OPERATING MODES

There are two basic container operating modes:

- 1) manual mode
- 2) automatic (remote) mode

The **manual mode** is a status when the container works independently of any remote control.

Delivery progress: The customer arrives at the container and takes the delivery nozzle. The display will reset (approx. 1.5 seconds) and then the pump motor switches on and the container is ready for delivery. Once the liquid has been delivered, the customer hangs up the delivery nozzle and pays for the delivered liquid to the operator. The container is immediately ready for next delivery. Since the container is not controlled in any way in the manual mode, it is necessary to manually set the unit price on the container. The number of delivered litres per shift is determined by the difference between the electronic (or electromechanical) totalizers at the start and end of the shift.

The **automatic mode** is a status when the container is remotely controlled by a control device (program in PC, control device, station controller, etc.). The automatic mode allows remotely control deliveries from the service station booth. The booth contains a control device by which the fuel station attendant releases the container for delivery and collects information about the delivered liquid amount and price after the delivery is finished.

Delivery progress: The customer arrives at the containers and takes the delivery nozzle. The container will require authorization from the control unit in the booth. The control unit sends a unit price, a maximum amount/volume of delivery, and allows delivery. The display of the container will reset (\*approx. 2 seconds after removing the nozzle) and the pump motor switches on. Once the liquid has been delivered, the customer hangs the nozzle and pays the required amount to the booth where he receives the tax receipt (receipt) for the delivered liquid. The container is immediately ready for next delivery. Since the container is remotely controlled in the automatic mode, it is not necessary to manually set the unit price on the container. The correct unit price is automatically set by the control computer to all dispensing containers at the service station.

**NOTE** *Immediately after the delivery is enabled, the container display is reset. The time after removal of the nozzle after resetting the display and starting the pump may vary significantly depending on the control system used and the fuel station configuration from 2 to 5 seconds*

**Switch from the automatic to the manual mode.** By default, the containers are connected and set as it is expected they should work at the service station, i.e., if the service station is equipped with a control system, the containers will be set to the automatic mode; if the service station is without the control system, the containers are set to the manual mode by default. In case you have to switch the containers from automatic to manual mode - e.g., because of a crash in the control system, you have to change the value of parameter M0-P12 (P12) from value 0 to value 3 using the IR remote control and to check the setting of unit prices in parameter M0-P03 (P03) – see previous chapters.

**NOTICE** *The switch from the automatic to manual mode must be discussed with the service engineer in advance!*

### 3.3.4. PRESET KEYPAD

TATSUNO EUROPE dispensing containers may be equipped with a so-called preselection keypad enabling preset the delivered amount or quantity (volume or weight) by the customer directly on the container. The customer may decide before he/she starts the delivery what volume or for what sum of money he/she wants to refill the storage tank. The pre-selected value may be cancelled by pressing the <Cancel> button at the moment when the delivery has not started yet. It is then possible to set another pre-selected value or deliver in a classic way without using the pre-selection. The containers can be equipped with the following two types of preselection keypads (see pictures below):

- 4-key preset keypad with 3 fixed amount or volume values (3 values of the buttons can be freely set using the service parameters of the counter)
- 12-key preset keypad that allows to enter any value for a preset amount or volume



Picture 2 – 4buttons preset keypad



Picture 3 – 12buttons preset keypad

**NOTE** In case the pre-selection keyboards are used, it is necessary that the containers are equipped with throttle valves (slow down) that ensure safe deceleration of fuel flow rate before the target preset value.

**a) Example of entering the pre-selection in Euros**

- The customer arrives to the container and wants to deliver technical liquid for €10.
- a) Press the **<5€>** key twice on the 4-key preset keypad
- b) Press the **<1>** **<0>** keys on the 12-key preset keypad
- He/she selects the product he/she wants to deliver, lifts the delivery nozzle from the container and puts it in the car tank.
- The container delivers exactly the amount he/she has chosen and then stops automatically.
- The customer hangs the delivery nozzle back into the container and goes to pay the sum.

**b) Example of entering pre-selection in litres**








- The customer arrives to the container and wants to refill 20 litres of technical liquid.
- a) Press the **<10L>** key twice on the 4-key preset keypad
- b) Press the **<2>** **<0>** **<#>** keys on the 12-key preset keypad
- He/she selects the product he/she wants to deliver, lifts the delivery nozzle from the container and puts it in the car tank.
- The container delivers exactly the volume he/she has chosen and then stops automatically.

The customer hangs the delivery nozzle back into the container and goes to pay the volume.

**3.3.5. DESCRIPTION OF THE PDEDIL V6 DISPLAY**



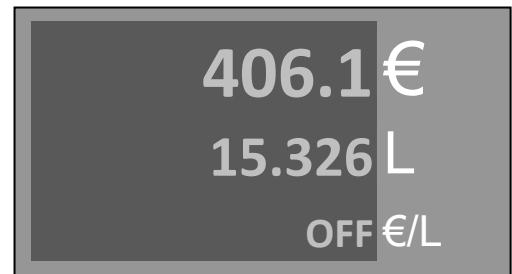
The LCD display consists of the following parts:

Display segment	Function	Note
	Amount delivered	
	Volume delivered	
	Delivered liquid unit price	
	Minimum Measured Quantity	- the display is set by parameter P91 for each delivery hose
	Container status indication - released for delivery / blocked	- it appears automatically when the container status changes
	Signalling of forced termination of delivery	- it appears after the STOP command has been received from the booth, after the preset number / preset amount has been reached or after the allowed time without delivery has been exceeded
	Fault signalling or maintenance required.	- it will be displayed at each fault indication together with the fault code

### 3.3.6. DISPENSING CONTAINER OPERATION TERMINATION

**RECOMMENDATION** The manufacturer recommends disabling the container by switching off the 230 V circuit breaker for stabilized power supply of the electronic counter of the container.

After switching off the power supply of the electronics in the fuel station switchboard, the “OFF” message is displayed on the unit price display and the display illumination switches off. The last data is shown on the display for at least 15 minutes after the power supply disconnection. After elapsing this period and “erasing” the display the display status is saved into the counter memory and will be shown after the power supply is connected again – see the previous section.



Now the container is out of order.

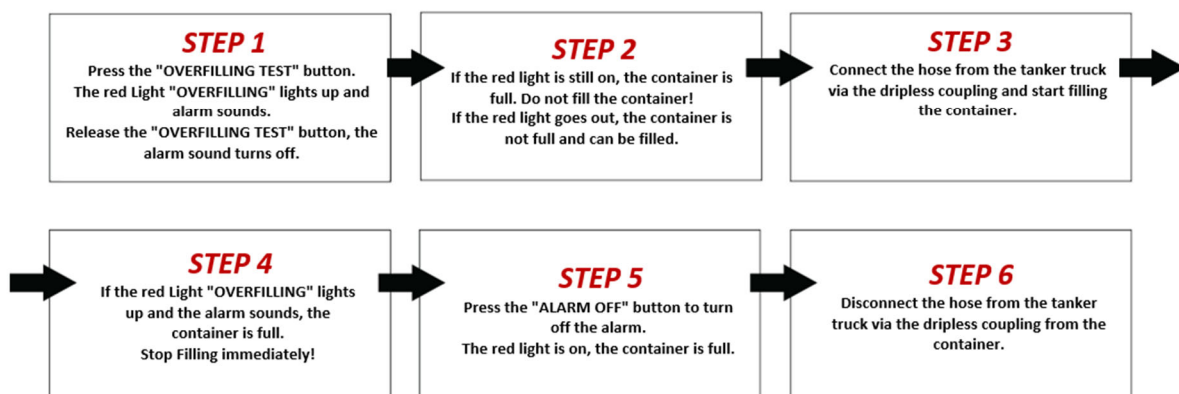
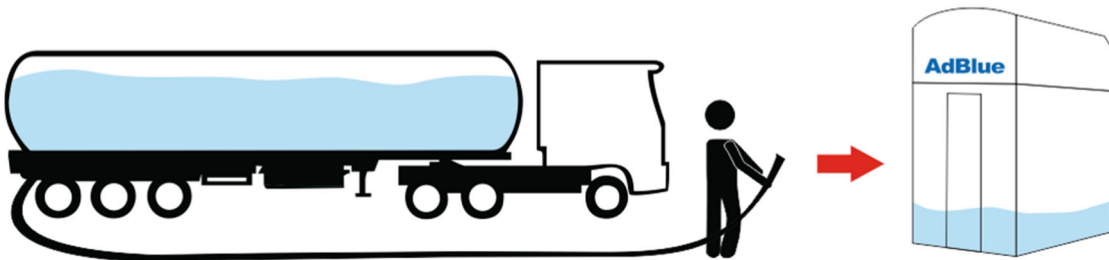
The counter can be switched on again after approx. 5 seconds

### 3.3.7. DISPENSING CONTAINER FILLING

**CAUTION** BEFORE FILLING ITSELF, MAKE SURE THAT THE DEVICE IS POWERED UP. IF THIS IS NOT THE SITUATION, THE OVERFILL ALARM SYSTEM WILL NOT WORK AND THE TANK CAN OVERFLOW, THE PUMPED LIQUID LEAK AND THE EQUIPMENT DAMAGE!!

**CAUTION** THE DISPENSING UNIT IS NOT SUITABLE FOR PUMPING FLAMMABLE LIQUIDS OR FOR OPERATION IN AN EXPLOSIVE ATMOSPHERE!

# AdBlue® Filling Instruction



## The correct procedure for filling:

- 1) Check that the **Overfilling** and **Leakage** warning lights on the container's main panel are not illuminated.
- 2) Press the **Overfilling test** button and verify that the alarm is functional.
- 3) Press the **Leakage test** button and verify that the alarm is functional.
- 4) Connect the loading vehicle's filling hose to the dripleless quick coupler located behind the door at the bottom of the main panel.
- 5) Start filling the tank. The maximum flow must not exceed  $\pm 250$  [L/min].
- 6) Stop filling **IMMEDIATELY** when the **Overfilling** light comes on and the alarm sounds. The **Overfilling** warning light will be on until the AdBlue level in the tank drops (that is, until the tank overfill sensor is flooded with liquid).
- 7) Press **Alarm off** button to turn the alarm off
- 8) Disconnect filling hose from the container

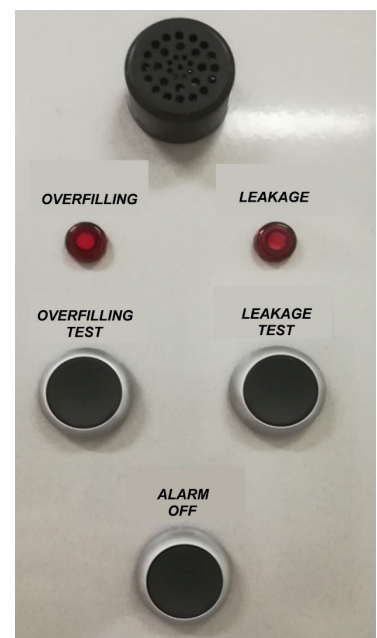


Figure 4 – Main panel

## 4. MAINTENANCE AND SERVICE

### 4.1. MAIN PRINCIPLES OF DISPENSING CONTAINER MAINTENANCE

- ⚠ keep all functional units of the dispensing container clean, so that in the event of an unforeseen malfunction, it can be easily identified and quickly removed
- ⚠ constantly check all connections, if leakage of technical fluid occurs, tighten and seal the connections
- ⚠ check the condition of the dispensing nozzle and, depending on the type and size of the defect, decide on the repair or replacement of the dispensing nozzle
- ⚠ regularly check the condition of the dispensing hoses. In case of mechanical damage to the casing of the dispensing hose, ensure its immediate replacement.
- ⚠ check the function of the door locks and the suspension mechanism of the dispensing nozzle
- ⚠ pay attention to the external cleanliness of the dispensing container, especially pay attention to the cleanliness of the counter glasses

**CAUTION** *It is necessary to always switch off electricity and take reliable measures against its reconnection before performing all maintenance work at mechanical, hydraulic or electrical parts.*

**CAUTION** *Do not remove the container covers during operation!*

**CAUTION** *Do not open the distribution box lid if the container is live!*

#### THE OPERATOR OF THE DISPENSING CONTAINER IS OBLIGED TO:

- ⚠ Appoint an employee responsible for the operation and technical condition of the container.
- ⚠ Ensure inspections, testing, repairs, and maintenance in a professional way.
- ⚠ Register documents and keep records on operation.

All activities related to operation, operation and service may only be performed by personnel with the appropriate authorization.

#### 4.1.1. MAINTENANCE OF DISPENSING CONTAINER COVERS

##### Recommended maintenance of the container's laminate envelope:

- ⚠ At least 2 times a month or after each major contamination of the surface with AdBlue liquid - washing with warm water, thorough cleaning of the covers from salt residues, dust and grease (depending on the degree of contamination).

## 4.2. TROUBLESHOOTING AND SOLVING DISPENSING CONTAINER DEFECTS

When you encounter a problem, first read the "What to do if ..." table (see below) where the most frequently asked questions of the container users about the problems encountered at the service station are described. In the event of a container defect, the electronic counter that controls the container displays a fault message in the form of a numeric code.

Table 2 – What to do, if ...

The container does not respond to the removal of the delivery nozzle and there is no fault message on the display
This means that the container is without the power supply, or the delivery nozzle on the container is poorly hinged, or that the container is blocked by the control system. <ul style="list-style-type: none"> <li>➤ Check proper hanging of all delivery nozzles</li> <li>➤ Check whether pumping made on the container is paid at the cash desk</li> <li>➤ If the container is in manual mode, try unlocking the container with the IR remote controller (press "0")</li> <li>➤ Turn the power supply of container counter off and on.</li> <li>➤ Check the power supply of container, i.e., when the power is turned on the display must pass the test</li> <li>➤ Check the position of the circuit-breaker for the single-phase power supply 230V of the container in the main switchboard of the service station</li> <li>➤ If the container is connected to the control computer, the container blocking may be coupled to a control system that does not release the container for pumping or blocks the container. Turn the power container off and on and change the container mode from automatic to manual. If the stand is in a manual mode, there is a fault on the control computer side.</li> </ul>
An error message "E18" will appear on the display of the container
This is a container fault message that indicates that communication between the container and the control unit (computer, station controller, control console, etc.) has been lost. <ul style="list-style-type: none"> <li>➤ check the correct operation of the control unit (turning on the counter, turning on the data converter)</li> <li>➤ check the data cable connection</li> </ul>
At the beginning of the delivery, the customer removes the delivery nozzle and does not deliver (e.g., because of opening the liquid tank of the car). After a while the pump turns off. The display shows "STOP".
This is a container report that states that the delivery has been terminated due to interrupting the delivery for longer than 60 seconds. Hang the delivery nozzle and re-deliver.
During filling the delivery is interrupted (e.g., changing the canisters), the pump switches off after a while. The display shows "STOP".
This is a container report that states that the delivery has been terminated due to interrupting the delivery for longer than 60 seconds. Hang the delivery nozzle and re-deliver.
After picking up the delivery nozzle an error message "E30" appears on the display of the container.
This is a container failure report that states that the unit price is zero. <ul style="list-style-type: none"> <li>➤ If the container is operating in a manual mode without the remote control, then the unit price is incorrectly set. Set non-zero unit price</li> <li>➤ If the container is controlled remotely, then check the unit price settings in the station controller (computer, controller). Before each delivery, the fuel price is automatically sent to the container.</li> </ul>

## 4.3. SERVICE OF CONTAINERS

- service work is carried out in accordance with the operating rules at the servcel station
- before starting the service, the container must be shut down, marked visibly with the "OUT OF SERVICE" sign and the driveway must be marked with the "NO ENTRY" sign
- the container must be disconnected from the power supply (switch off by the main switch on the switchboard)
- the valves on the supply line must be fully closed
- during service work, vehicles must be prevented from passing within 5 meters around

- a fire extinguisher must be available to workers
- service work may only be performed by an authorized service agent

#### 4.2.1. WARRANTY AND COMPLAINTS

The contractual warranty is determined – by default, the manufacturer provides warranty for provided devices for 2 years or 1 million litres of delivered fuels. This warranty does not cover consumables. In case of any complaints the following information must be specified:

- Serial number and type – see the type label
- Exact description of the defect and circumstances of its occurrence

The complaint shall be invalid if the safety seals are broken or the device has been tampered with. Defects and deficiencies caused by incorrect or unauthorized use or maintenance are not covered by the warranty (e.g., problems caused due to the water content and impurities in the tank and hydraulic system). During operation, it is necessary to regularly check water and impurities presence and perform cleaning if necessary.

#### 4.2.2. ACCESSORIES

- User Manual
- Certificate on product quality and completeness
- EU Declaration of conformity
- Data sheet of the container
- Logbook of all meters installed in the container
- IR controller for counter operation and setting (may be ordered)
- Foundation frame (may be ordered)

#### **Spare parts catalogue**

This document is intended for service companies and service engineers only.

## ATTACHMENTS FOR INSTALLATION

Legends/Legenda/Легенда/Legende/Légende:

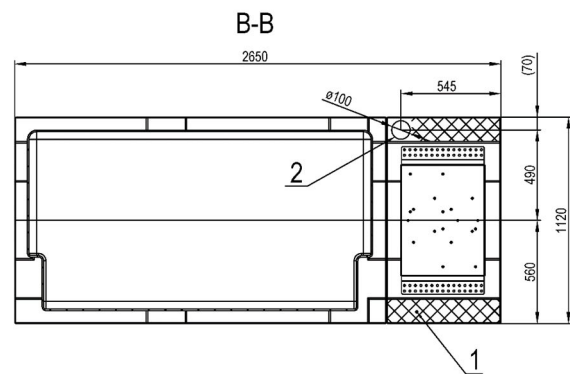
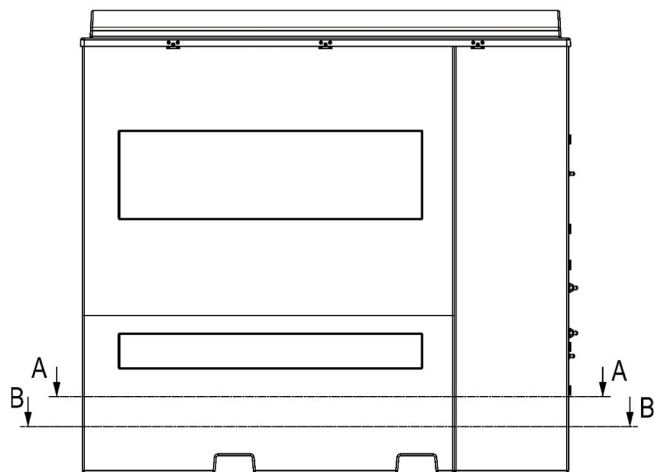
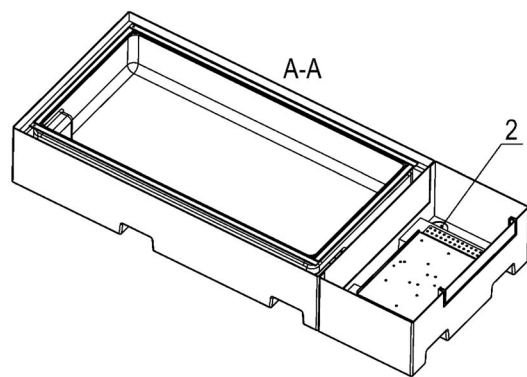
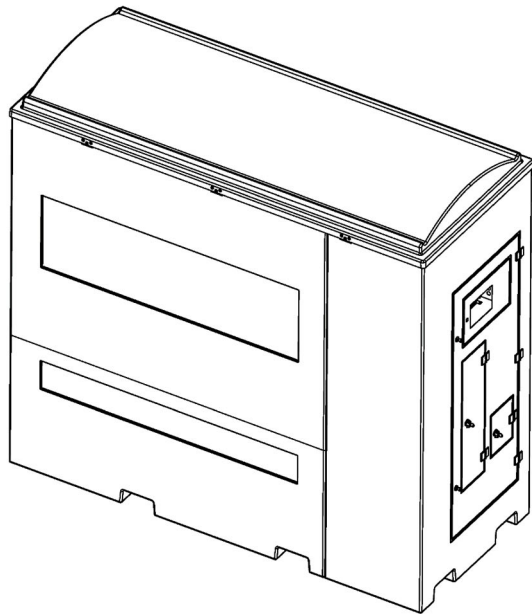
<b>1</b>	<b>EN</b>	<b>Container anchoring area (for anchor bolts)</b>
	<b>CZ</b>	Oblast pro ukotvení kontejneru (pro kotvící šrouby)
	<b>RU</b>	Место крепления контейнера (для анкерных болтов)
	<b>DE</b>	Containerverankerungsbereich (für Ankerbolzen)
	<b>FR</b>	Zone d'ancrage du conteneur (pour les boulons d'ancrage)
	<b>IT</b>	Zona di ancoraggio container (per tirafondi)
<b>2</b>	<b>EN</b>	<b>Power supply and data cables output (inlet hole, Ø100mm)</b>
	<b>CZ</b>	Výstup kabelů pro napájení stojanu a přenos dat (vstupní otvor Ø100mm)
	<b>RU</b>	Выход кабелей питания и передачи данных (входное отверстие, Ø100мм)
	<b>DE</b>	Ausgang für Stromversorgungs- und Datenübertragungskabel (Einlassloch, Ø100mm)
	<b>FR</b>	Sortie des câbles d'alimentation et de transfert de données (trou d'entrée, Ø100mm)
	<b>IT</b>	Uscita cavi alimentazione e trasferimento dati (foro di ingresso, Ø100mm)
<b>3</b>	<b>EN</b>	<b>Current circuit breaker for electronic calculator power</b>
	<b>CZ</b>	Proudový jistič pro napájení elektronického počítače
	<b>RU</b>	Токовый выключатель для питания электронного счетчика
	<b>DE</b>	Stromsicherung für Einspeisung des elektronischen Zählers
	<b>FR</b>	Disjoncteur de surintensité pour l'alimentation du compteur électronique
	<b>IT</b>	Interruttore protezione alimentazione testata elettronica
<b>3a</b>	<b>EN</b>	<b>Current circuit breaker for sump pump power and heating</b>
	<b>CZ</b>	Proudový jistič pro napájení čerpadla a vytápění
	<b>RU</b>	Токовый выключатель для насоса и подогрева
	<b>DE</b>	Stromschutzscharter für Pumpen- und Heizleistung
	<b>FR</b>	Disjoncteur de courant pour la pompe et la puissance de chauffage
	<b>IT</b>	Interruttore di corrente per pompa e potenza di riscaldamento
<b>4</b>	<b>EN</b>	<b>Backup power source UPS with powering stabilization</b>
	<b>CZ</b>	Záložní zdroj UPS se stabilizací napájení
	<b>RU</b>	Резервный источник питания UPS с стабилизацией питания
	<b>DE</b>	USV mit Stabilisierung der Einspeisung
	<b>FR</b>	Source d'alimentation auxiliaire (onduleur) avec alimentation stabilisée
	<b>IT</b>	Gruppo di continuità UPS con stabilizzazione dell'alimentazione
<b>5</b>	<b>EN</b>	<b>Current circuit breaker of the UPS</b>
	<b>CZ</b>	Proudový jistič záložního zdroje UPS
	<b>RU</b>	Токовый выключатель Резервного источника питания UPS
	<b>DE</b>	USV-Stromsicherung
	<b>FR</b>	Disjoncteur de surintensité de la source auxiliaire (onduleur)
	<b>IT</b>	Interruttore protezione alimentazione Gruppo di continuità UPS
<b>6</b>	<b>EN</b>	<b>Workplace of the staff (kiosk)</b>
	<b>CZ</b>	Pracoviště obsluhy (kiosk)
	<b>RU</b>	Рабочее место персонала (киоск)
	<b>DE</b>	Arbeitsplatz des Bedienungspersonals (Geschäft)
	<b>FR</b>	Lieu de travail du personnel (guichet)
	<b>IT</b>	Postazione di lavoro personale (chiosco)
<b>7</b>	<b>EN</b>	<b>Fuel station technology main distribution box</b>
	<b>CZ</b>	Hlavní rozvaděč technologie čerpací stanice
	<b>RU</b>	Главный распределительный щит технологии АЗС
	<b>DE</b>	Hauptschaltanlage der Tankstellentechnologie
	<b>FR</b>	Unité de distribution principale des équipements de la station-service
	<b>IT</b>	Quadro principale della tecnologia della stazione di servizio
<b>8</b>	<b>EN</b>	<b>Data converter (RS485 / RS232) or controller</b>
	<b>CZ</b>	Datový převodník (RS485 / RS232) nebo kontrolér
	<b>RU</b>	Преобразователь данных (RS485 / RS232) или контроллер
	<b>DE</b>	Datenwandler (RS485 / RS232) oder Controller
	<b>FR</b>	Convertisseur de données (RS485 / RS232) ou contrôleur
	<b>IT</b>	Convertitore dati (RS485 / RS232) o dispositivo di controllo
<b>9</b>	<b>EN</b>	<b>Controlling device (PC, payment terminal, POS, console, ...)</b>
	<b>CZ</b>	Řídicí zařízení (PC, pokladna, POS, konzole, ...)
	<b>RU</b>	Контролирующее устройство (кассовый аппарат, платежный терминал, POS, консоль, ...)
	<b>DE</b>	Steuergeräte (PC, Kasse, POS, Konsole, ...)
	<b>FR</b>	Equipement de commande (PC, caisse, POS, console, ...)

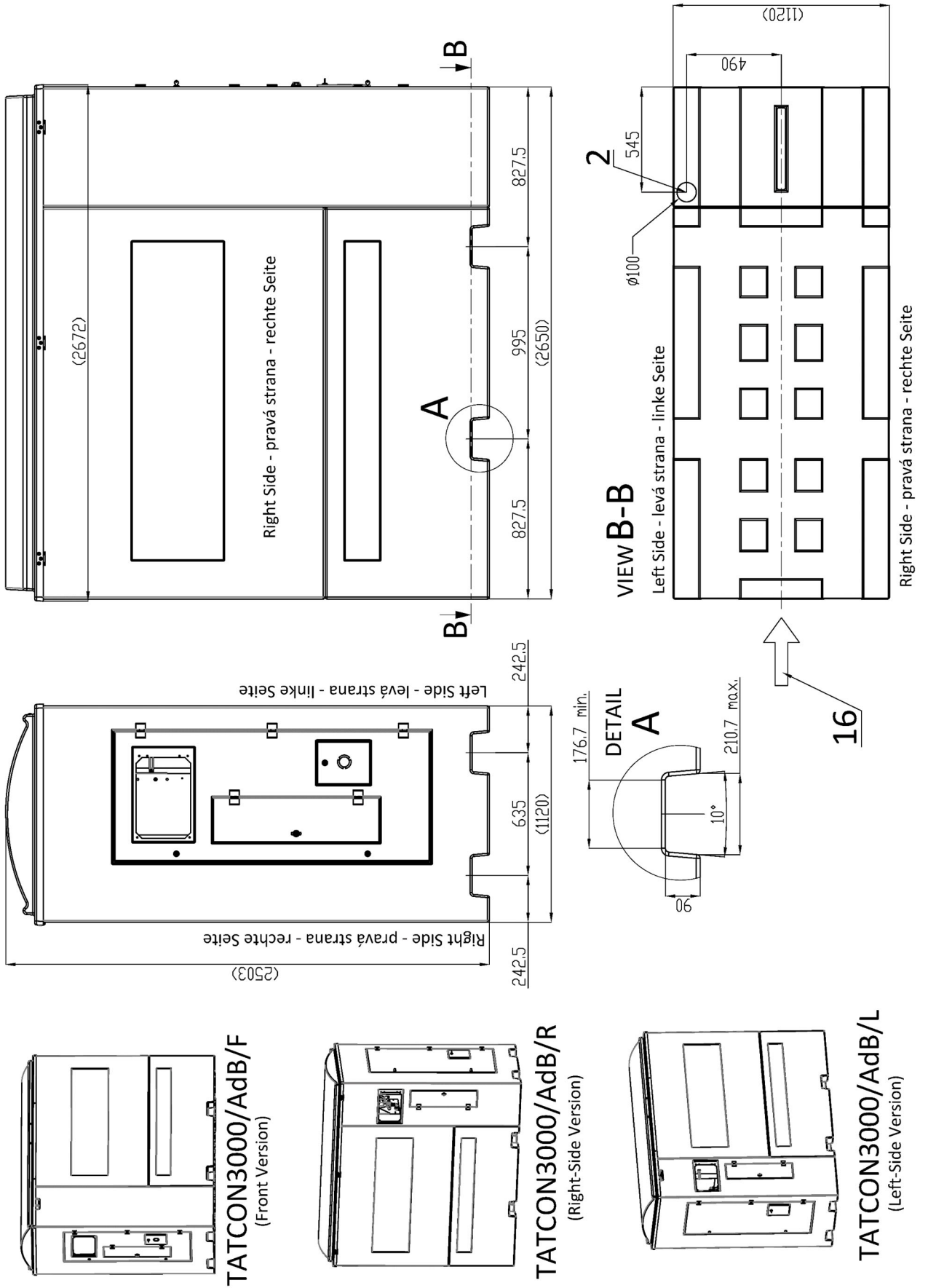


	IT	Dispositivo di comando (PC, terminale pagamento, console, ...)
<b>10</b>	EN	<b>Cable for electronic calculator powering, type H05VV5-F 3Gx1,5</b>
	CZ	Kabel pro napájení elektronického počítadla stojanu, typ H05VV5-F 3Gx1,5
	RU	Кабель для питания электронного счетчика, тип H05VV5-F 3Gx1,5
	DE	Kabel für Einspeisung des elektronischen Zapfsäulenzählers, Typ H05VV5-F 3Gx1,5
	FR	Câble d'alimentation du compteur électronique du distributeur, type H05VV5-F 3Gx1,5
	IT	Cavo per alimentazione testata elettronica tipo H05VV5-F 3Gx1,5
<b>11</b>	EN	<b>Cable for suction pump powering and heating, type H05VV5-F 3Gx1,5</b>
	CZ	Kabel pro napájení čerpadla a vytápění, typ H05VV5-F 3Gx1,5
	RU	Кабель питания всасывающего насоса и обогрева, тип H05VV5-F 3Gx1,5
	DE	Kabel für Sauggruppenstrom und Behälterheizung, Typ H05VV5-F 3Gx1,5
	FR	Câble d'alimentation de pompe d'aspiration et de chauffage de conteneur, type H05VV5-F 3Gx1,5
	IT	Cavo per alimentazione pompa di aspirazione e riscaldamento contenitore, tipo H05VV5-F 3Gx1,5
<b>12</b>	EN	<b>Data line cable, type H05VVC4V5-K 5x0,5</b>
	CZ	Kabel datové linka, typ H05VVC4V5-K 5x0,5
	RU	Кабель для передачи данных, тип H05VVC4V5-K 5x0,5
	DE	Kabel Datenleitung, Typ H05VVC4V5-K 5x0,5
	FR	Câble de données, type H05VVC4V5-K 5x0,5
	IT	Cavo per linea dati, tipo H05VVC4V5-K 5x0,5
<b>13</b>	EN	<b>Power distribution box XP27 with power for electronic calculator, pump and heating</b>
	CZ	Napájecí rozvodná krabice XP01 s napájením pro elektronické počítadlo a elektromotory
	RU	Коробка распределения питания XP01 с питанием для электронного счетчика и для электродвигателей
	DE	Versorgungsverteilerkasten XP01 mit Einspeisung des elektronischen Zählers und der Elektromotoren
	FR	Boîtier de distribution d'alimentation XP01 avec alimentation pour le compteur électronique et les moteurs électriques
	IT	Scatola di distribuzione alimentazione XP01 con alimentazione per testata elettronica e motori elettrici
<b>14</b>	EN	<b>Communication distribution box XS01 (RS485 with PDE protocol)</b>
	CZ	Komunikační rozvodná krabice XS01 (RS485 s protokolem PDE)
	RU	Коммуникационная распределительная коробка XS01 (RS485 с протоколом PDE)
	DE	Kommunikationsverteilerkasten XS01 (RS485 mit PDE-Protokoll)
	FR	Boîtier de distribution de communication XS01 (RS485 avec protocole PDE)
	IT	Scatola di distribuzione della comunicazione XS01 (RS485 con protocollo PDE)
<b>15</b>	EN	<b>Dispensing container</b>
	CZ	Výdejní kontejner
	RU	Раздаточный контейнер
	DE	Zapfsäule Behälter
	FR	Conteneur distributeur
	IT	Contentitore dispenser
<b>16</b>	EN	<b>Recommended direction of vehicles arrival to the container</b>
	CZ	Doporučený směr příjezdu vozidel k výdejnímu kontejneru
	RU	Рекомендуемое направление приезда автомобилей к контейнеру
	DE	Empfohlene Einfahrtsrichtung der Fahrzeuge zum Behälter
	FR	Sens d'arrivée recommandé des véhicules vers l'appareil distributeur
	IT	Direzione raccomandata di arrivo veicoli al distributore

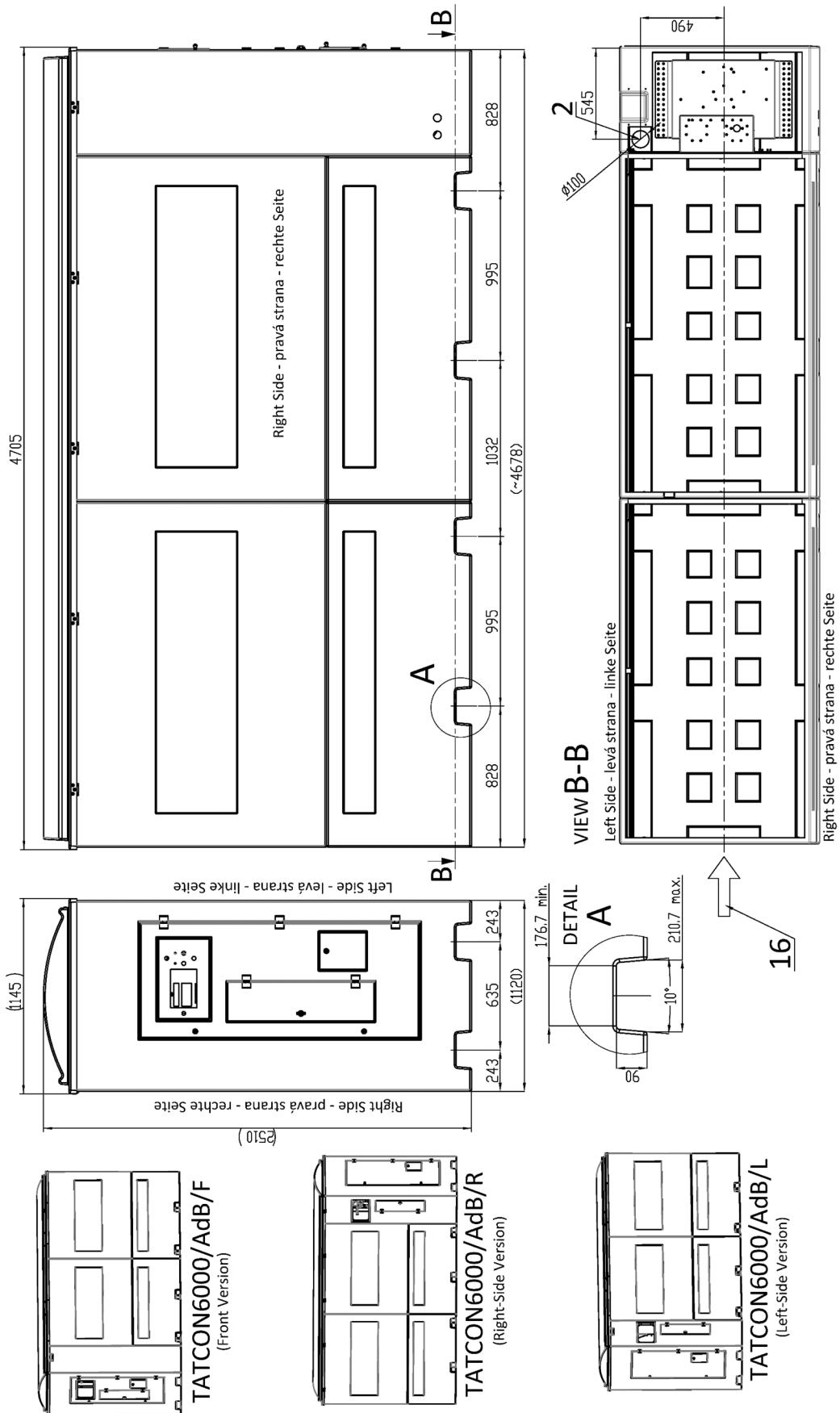
APPENDIX 1 – FOUNDATION PLANS

APPENDIX 1.1 – TATCON3000 FOUNDATION PLAN





APPENDIX 1.2 –TATCON 6000 FOUNDATION PLAN

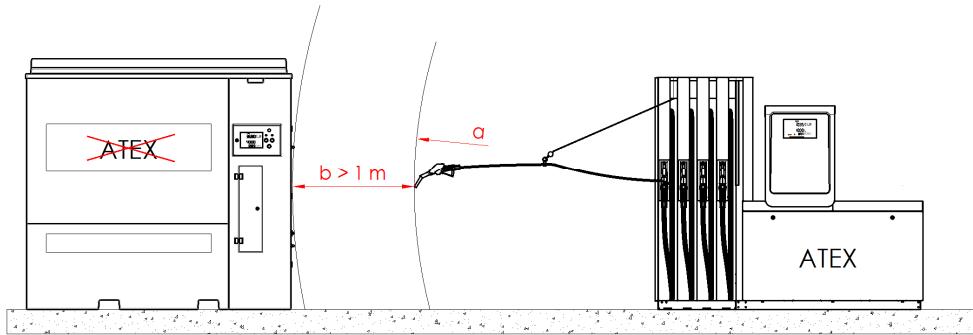


### APPENDIX 1.3 – SAFETY RULES FOR TATCON CONTAINER STATION LOCATION

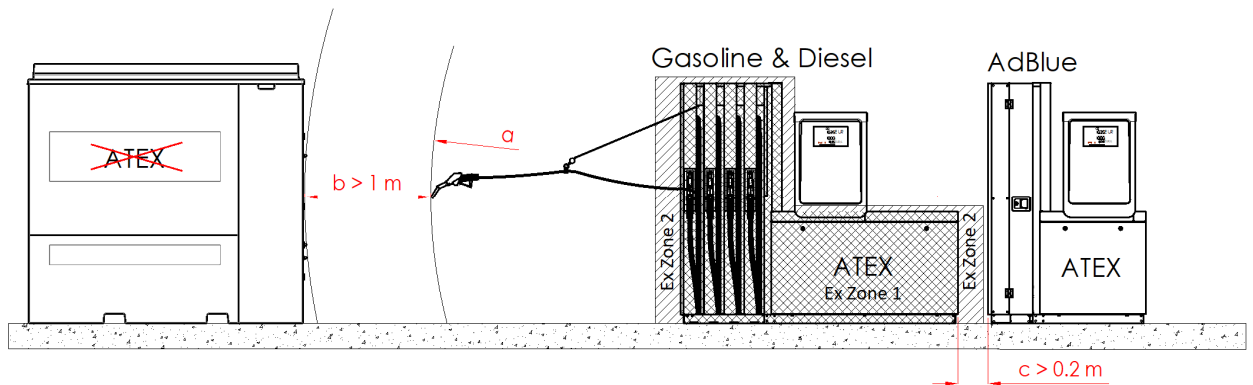
**CAUTION** THE DISPENSING CONTAINER IS NOT DESIGNED FOR INSTALLATION IN AREAS WITH AN EXPLOSION HAZARD! ADBLUE CONTAINER TATCON IS NOT ATEX APPROVED. IT SHOULD BE INSTALLED OUT OF ANY DANGEROUS ZONE 0, 1 or 2 DEFINED BY THE STANDARD EN 60079-10-1.

The producer of the container recommends following examples of installation:

- 1) Dispensing container TATCON (with hose & nozzle & counter) near the petrol dispenser

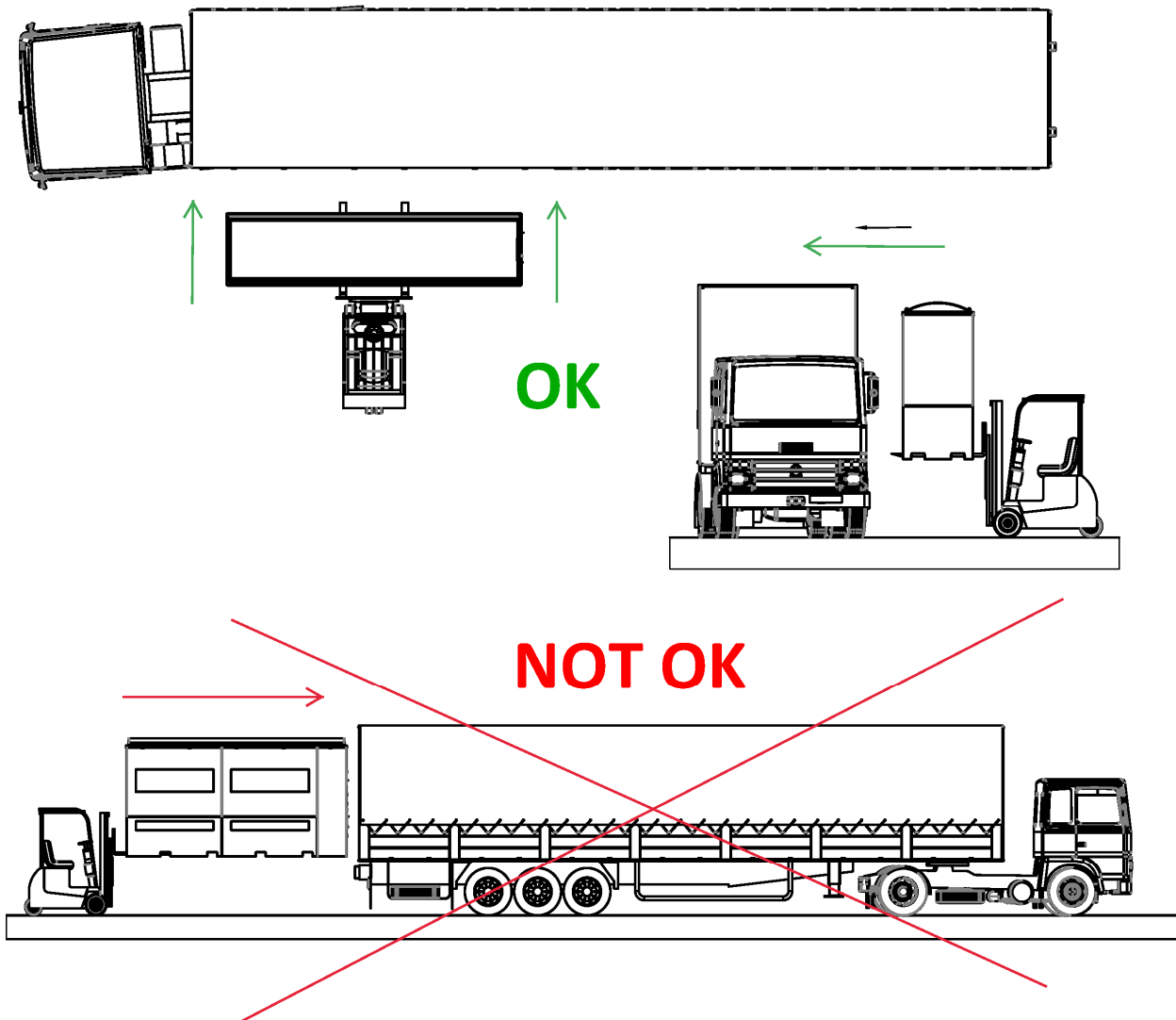


- 2) Storage container TATCON with connected external AdBlue dispenser



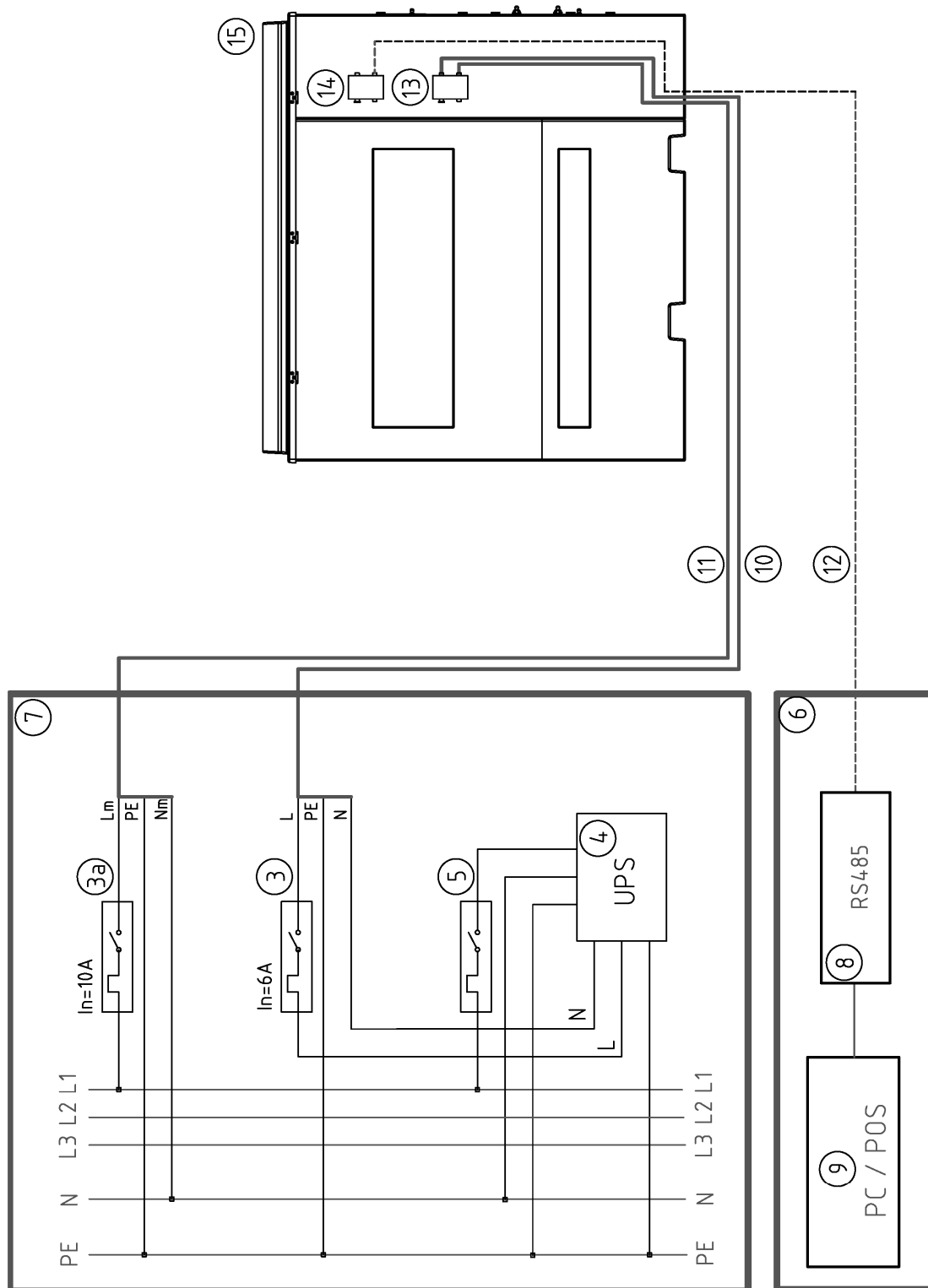
Legend: a ... maximum reach of the petrol nozzle, b ... recommended minimum distance between petrol nozzle and container, c ... recommended minimum distance between petrol dispenser and external AdBlue dispenser

APPENDIX 2 – CONTAINER LOADING AND UNLOADING METHOD

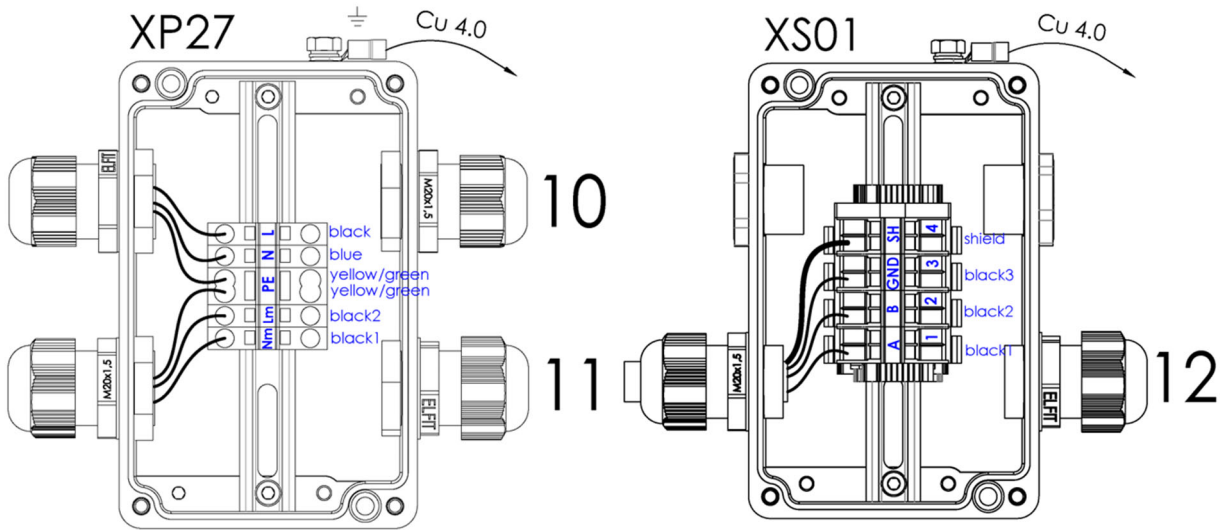


**CAUTION** When handling the container, the tightness of the pipe can be broken. After transport and subsequent installation of the container, it is necessary to tighten and check all connections on the filling pipe before putting it into operation !!!

APPENDIX 3 – EXAMPLE OF CONTAINER ELECTRICAL CONNECTION



APPENDIX 4 – CONNECTION OF ELECTRICAL DISTRIBUTION BOXES



NOTES:

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