

# AMX 710

## **AUTOMOTIVE GLASS TRANSPARENCY METER USER'S GUIDE**



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The User's Guide: AMX710

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AUTOMEX Sp. z o.o.  
ul. Morenowa 34  
80-172 Gdańsk  
tel. +48 58 3485527  
POLAND  
**www.automex.pl**  
**automex@automex.pl**

## 1. Introduction

**Make sure you have read and understood the contents of this User's Guide before you start using this product, as it provides instructions that are crucial for operating this product properly.**

With the extensive growth in high-volume road infrastructures, such as motorways and throughways, populated by an increasing number of vehicles, it has become vital for both traffic safety and comfortable and efficient vehicle usage that technical inspection of vehicles is conducted in an expert and professional manner.

To help in this task, AUTOMEX provides a broad range of state-of-the-art diagnostic equipment. These robust, and reliable solutions seamlessly integrate sophisticated measurement technologies with advanced computer systems, ensuring flawless acquisition of diagnostic data combined with pinpoint accuracy. With such tools in your inventory, you can easily ensure adequate execution and quality of any inspection or diagnostics procedures you need to perform.

We congratulate you on purchasing the AMX 710 automotive glass transparency meter set.

The AUTOMEX AMX 710 glass transparency meter is a portable device designed to measure light transmittance in automotive glass.

With the AUTOMEX AMX 710 meter at your disposal, you can take accurate measurements of light transmittance in a wide variety of automotive glass fitted in cars, lorries, buses, or farm tractors. These glass types include hardened safety automotive glass, mineral (inorganic) laminated automotive glass as well as plastics, colourless, tinted glass, and glass coated with fogging foil, or non-reflecting, or hardening agents.

The AUTOMEX AMX710 automotive glass transparency meter is purposed to be used in assessing the state of the windscreens, door glass, rear windows, side windows, etc. during periodic vehicle overhauls as well as routine traffic inspections conducted by authorized services.








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### 3. Safety Precautions / Dos & Don'ts

**To assure safe operation and avoid damage to your product follow these precautions.**

-  Use the tool solely for its intended purpose as stated in this User's Guide.
-  Ensure that the tool is stored in its original case, while not in operation.
-  The illuminator lamp must not be touched!
-  Allow for the possibility that the illuminator may become hot when used for long periods. To avoid being burnt, hold the device only by its handle!
-  Never direct the light beam towards the eyes as it may result in a temporary loss of vision!
-  You must never introduce any modifications or changes to the original construction of the device.
-  Make sure that the tool is repaired, serviced and operated with observance of industrial safety regulations.

**To ensure proper operation of your product you should always adhere to these guidelines:**

-  While operating and storing this device, keep it spotlessly clean to protect its optical components from becoming dirty!
-  While taking measurements with this device, make sure that no other light sources are directed on the tested glass!
-  Press all the panel and function keys only with your fingers. Never use other objects or tools to press the device keys!
-  Never introduce any changes in the tool's mechanical design, its electrical system, or its electronics.

## **4. Basic Rules for Efficient and Safe Use of the AMX 710**

### ***4.1. About the AMX 710 Power Supply***

The AMX 710 can be powered from the mains (a wall socket) or the vehicle battery.

To power the AMX 710 from the mains (a wall socket), use the supplied power adapter in order to supply the required current to the device. Do not use any other power adapter.

If you intend to use the vehicle's internal electric installation, use the supplied cable and plug it into the vehicle's cigarette lighter socket. Do not use any other cable. Measurements taken with the AMX 710 can cause only negligible depletion of the vehicle's battery.

### ***4.2. Operating and Maintenance***

In order for this product to operate, it needs to be manipulated and operated in the specific manner described in this User's Guide. Observing the guidelines listed below will satisfy all the warranty conditions, and ensure carefree, longer use. When using your AMX 710 and accessories that work with it, use the following precautions:

- Protect the AMX 710 and its accessories from humidity.
- Protect all AMX 710 components from shock or impact as the illuminator and the receiver contain sensitive optical units.
- Keep your AMX 710 away from dust and dirt.
- Do not store your AMX 710 exposed to extreme temperature.
- Use only the supplied case to store your AMX 710.
- Do not attempt to dismantle, or disassemble the device. Any alterations or modification introduced to the device or its hardware void the product warranty and may damage the product.
- If you notice any malfunctions or faults in the performance of your AMX 710, refer its service to an authorized service facility.

### ***4.3. Product Repairs***

You are advised to refer both warranty and post-warranty service of your product to the Manufacturer's specialized service facility. **Unauthorized repair may damage your product and void your warranty.**

## **5. Product Overview**

### ***5.1. Purpose and Application***

The AMX 710 is a compact, portable meter of glass transparency that employs modern optical technology in conjunction with microprocessor-based digital signal processing.

The main purpose of this tool is to measure light transmittance in glass fitted in vehicles, or automotive glass transparency. This function is implemented in accordance to the Polish standard specified as PN-81/B-15153. In order to meet the requirements stated in the mentioned document as regards the glass transparency measurement method and accuracy, the AMX 710 measures real transmittance of visible light through the vehicle's glass relative to air. The light signal is converted to an electrical signal by a specialized receiver whose characteristics closely resemble those of the human eye. Then an algorithm is used to calculate the glass transparency of the tested media. Measurement results are recorded in the processor memory, and after being processed they are displayed on the AMX 710 LCD.

The AMX 710 can be used to measure light transmittance in both flat and convex glass fitted in road vehicles of any type, such as passenger cars, duty trucks, tractors, road making plants, etc.

Measurements can be taken both in the environment of the vehicle testing station and in almost any field conditions (excluding precipitation).

### ***5.2. Reviewing your AMX 710***

The block diagram of the AMX 710 glass transparency meter is presented in Figure 1. The AMX 710 is powered from an external 12V/1A power source. For the list of main accessories provided with the AMX 710 refer to section 5.4 of this User's Guide.

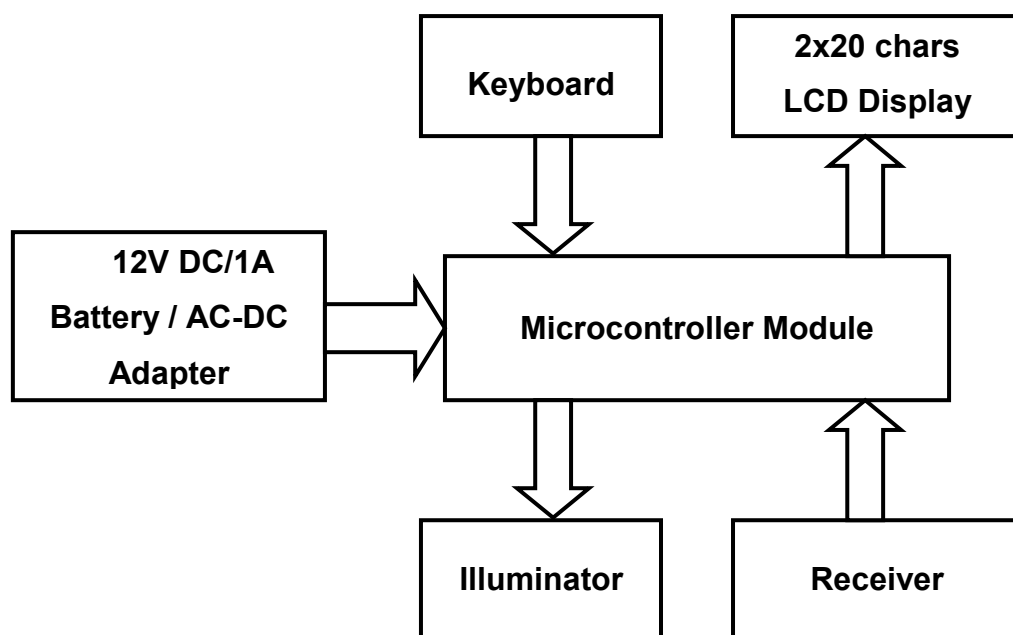
The AMX 710 design used the latest microprocessor and optical technology solutions. The measurement set consists of:

- Light Source (transmitter) - a halogen illuminator.
- Receiver - light intensity sensor (detector).
- Microprocessor Controller that supervises the execution of measurement procedure.

The illuminator is a precise, low-power, halogen lamp that ensures stable operation. The receiver is a semiconductor-based detector with the sensitivity corresponding to that of the human eye in daylight. Both the Receiver and the Illuminator are connected to the microprocessor system consisting of a specialized single-chip micro-controller and FLASH-EPROM memory.

Additionally, the microprocessor controller consists of:

- An LCD with the 2x20 character matrix.
- A 10-key keypad.



**FIGURE 1.** The block diagram of the AMX 710 glass transparency meter.

The Illuminator and the Receiver heads are made from light durable metals and alloys that ensure safe and fail-free operation.

The Operator Panel is build into a compact plastic encasing that will conveniently fit in your hand. The front panel contains an LCD (two 20-character rows) and 10-key tactile keypad.

The LCD display is intended to help you in performing the measurement. It displays messages that enable you to navigate through different menus. Here you can also view your

measurement results. The keypad enables you to manually control your measurement and to configure your AMX 710.







Figure 2 shows the front view of the AMX 710 Operator Panel.







FIGURE 2. AMX 710 – the operator panel view.

Table 2 lists keys making up the AMX 710 keypad with their descriptions.

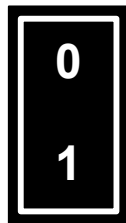
TABLE 2. The functions of the AMX710 keypad

Key	Referred as	Use it to:
	ENTER	Confirm your choice.
	Configuration	Start the calibration procedure.
	ESC	Interrupt or abort an operation (function) that is being performed.
	UP ARROW	Select a function.
	DOWN ARROW	Select a function.
	RIGHT ARROW	Select a function.

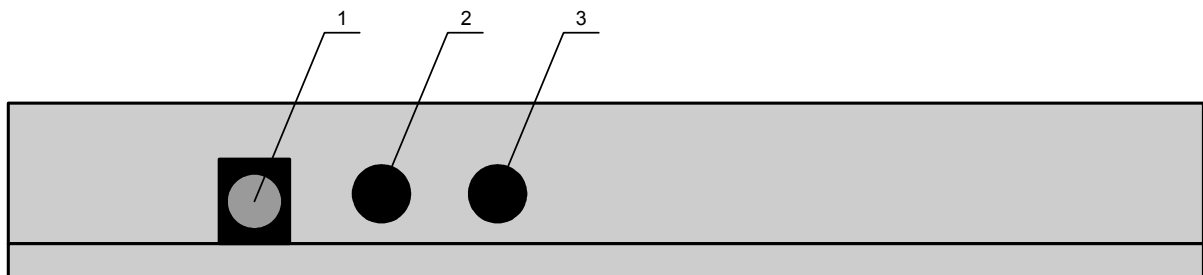
	LEFT ARROW	Select a function.
	TEST	Access a Service function.
	MODE	Switch ON / OFF the LCD backlighting.
	Fn	Access a Service function.

Besides the front panel items, your AMX 710 side panel contains:

- The main switch to turn your AMX 710 ON / OFF.



- The socket you can use to plug in an external 12 V power source (item 1 in Figure. 3), attached cables to connect to the Illuminator (item 2 in Figure 3) and the Receiver (item 3 in Figure 3).



**FIGURE 3.** AMX 710 – the side view.

The AMX 710 diagnostic set (the meter with associated accessories) easily fits in the supplied case that you can conveniently use for carrying it from your storage area to the testing site.

### 5.3. Technical Specifications.

The main technical specifications are presented in Table 1 below:

**TABLE 1. Main technical specifications of the AMX 710**

Parameter	Value	Remarks
Dimensions		-
Illuminator	φ40x75 [mm]	
Receiver	φ 40x40 [mm]	
Operator Panel	80x170x35 [mm]	
Power adapter	100x65x55 [mm]	
Weight	2.3 [Kg]	Total weight including the diagnostic set encasement.
Operational Temperature	0 - 50[°C]	-
Supply Voltage	the mains power (wall socket) ~230/50Hz battery	with the 12V/1A DC adapter min. 12V, max. 35V  min 12V, max 35V
Power Consumption	1[A] 120[mA]	With the light source ON With the light source OFF
Light source colour temperature	2856K ± 50K	-
Measurement range	0 – 100%	-
Measurement Resolution	0.1%	
Measurement Accuracy:		
Measurement range		
100% - 50%	± 2 %	- at measurement points 70% and 75% the measurement tolerance is 1%
49.9% - 0%	± 5 %	
Maximum glass thickness	12 mm	
Powering from a Vehicle Installation through the 12V DC cable	YES	-

### 5.4. *The AMX 710 Diagnostic Kit Contents*

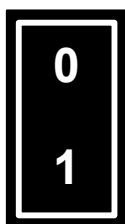
1. The meter (illuminator (light source) + receiver + operator panel) 1 item
2. A 12V power adapter for use with the mains (a wall socket). 1 item
3. A cable for plugging into the vehicle's internal electric installation 1 item
4. An RS232 or USB cable for connecting to a PC 1 item
5. AMX 710 User's Guide 1 item
6. Quick guide 1 item
7. A PC software CD-ROM 1 item
8. A case for storing and transport 1 item

## 6. Checking Glass Transparency with Your AMX 710

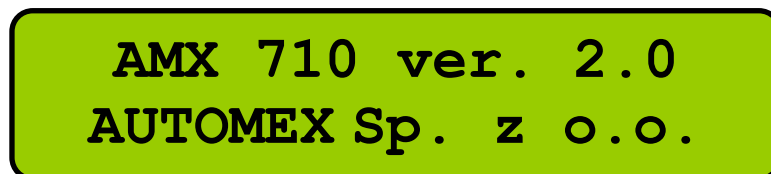
### 6.1. *Setting Up Your AMX 710 for Use*

Before you start taking measurements with your AMX 710, make sure that your diagnostic set case contains all the items listed in Section 5.4. Once you have checked that, remove your diagnostic set from your case and follow these steps:

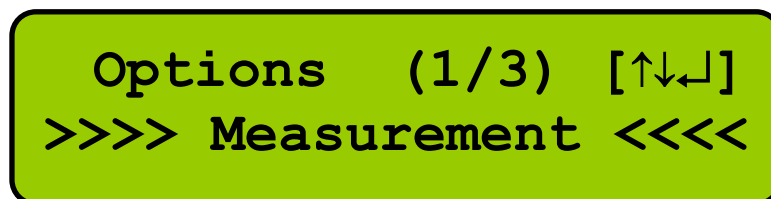
1. Select **power source** and connect it to the socket 1 (Figure 3) located on the side of the Operator Panel.
  - To power the device from **the mains (a wall socket)**, use the provided power adapter in order to supply the required voltage to the device.
  - If you intend to power the AMX 710 from the vehicle's **internal electric installation**, use the supplied cable and plug it into the vehicle's cigarette lighter socket.
2. Once you have connected power to the AMX 710, you can switch your glass transparency meter ON, using the switch located on the side of the Operator.



This will cause the AMX 710 LCD to display information about itself. This information is displayed for about 3 seconds, as shown below:



then the AMX 710 switches to the MEASUREMENT menu:



## 6.2. Using your AMX 710 to Take Measurements



Your AMX 710 glass transparency meter has been designed and built in such a way as to ensure its easy operation by one diagnostician. **In some particular cases, however, for example, while taking measurements on duty trucks or buses, two persons are needed to operate the AMX 710 meter.** First, you need to mount the Illuminator and Receiver on the vehicle glass pane. Then, you start measurement, and watch for any messages appearing on the AMX 710 meter's LCD, making sure diagnostic procedures are executed in the correct manner.


Information is exchanged between you and the microprocessor system through the AMX 710 keypad and LCD. The LCD displays messages, which enable you to easily select the type of measurement that you want to take. The LCD messages can also alert you to which phase of the measurement is being executed. Using the AMX 710 keypad, you can select the type of operation you want to run just by pressing its corresponding key, in accordance with messages displayed on the LCD.

You can choose one from the following three menu options: *Measurement*, *Function*, or *Settings*. Additionally, the *Function* and *Set* menus have their own submenus.

- Measurement
- Function:
  - "Calibration"
  - "Reading"
  - "Results"
  - "Clear results"
  - "Temperature"
- Set:
  - "Contrast"
  - "Buzzer"
  - "About"
  - "Language"

Figures 4, 5, and 6 show how you can access and select specific options. To set an option

use arrow keys:  ,  . Selection options will be displayed depending on which

key you press. Confirm your selection by pressing the  ENTER key.

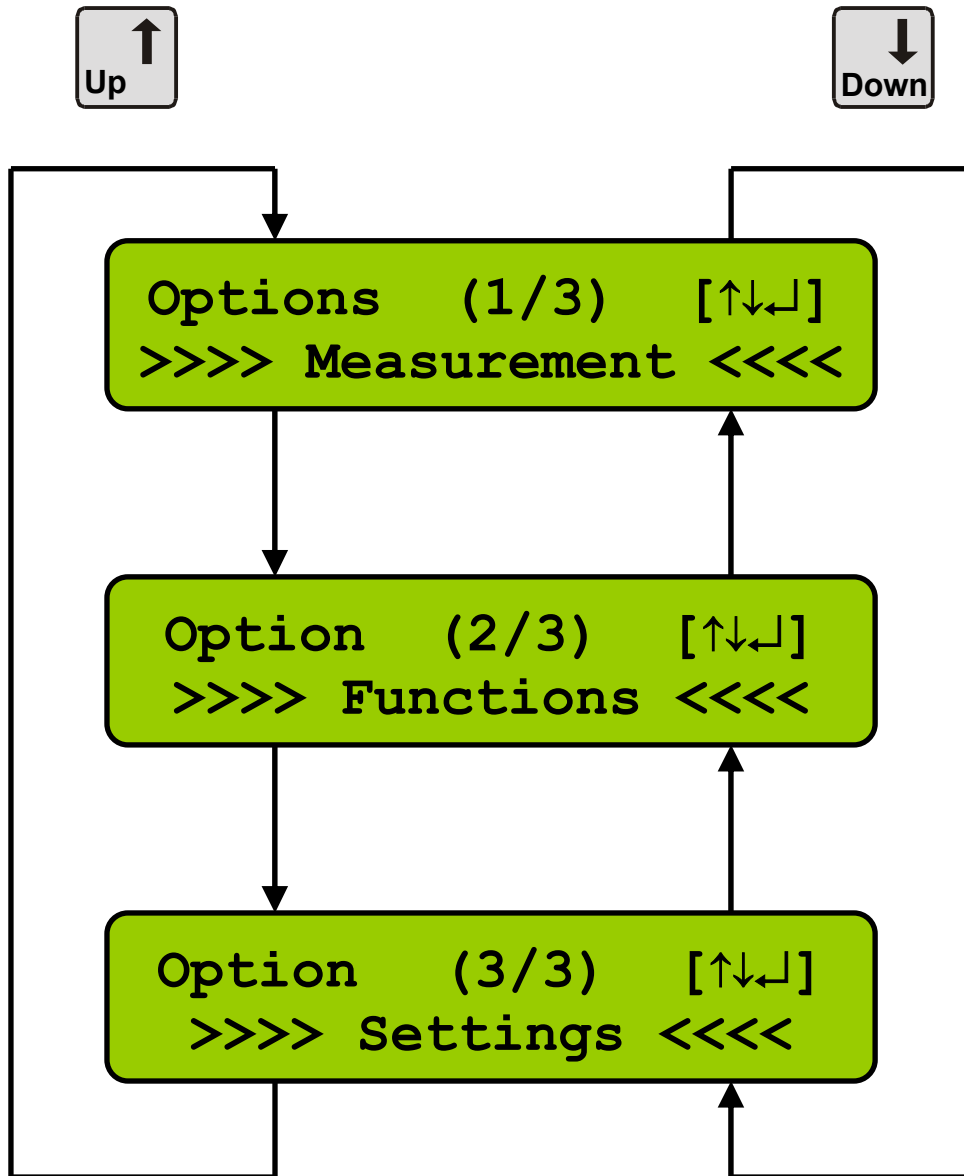


FIGURE 4. The AMX 710 – main menu options.

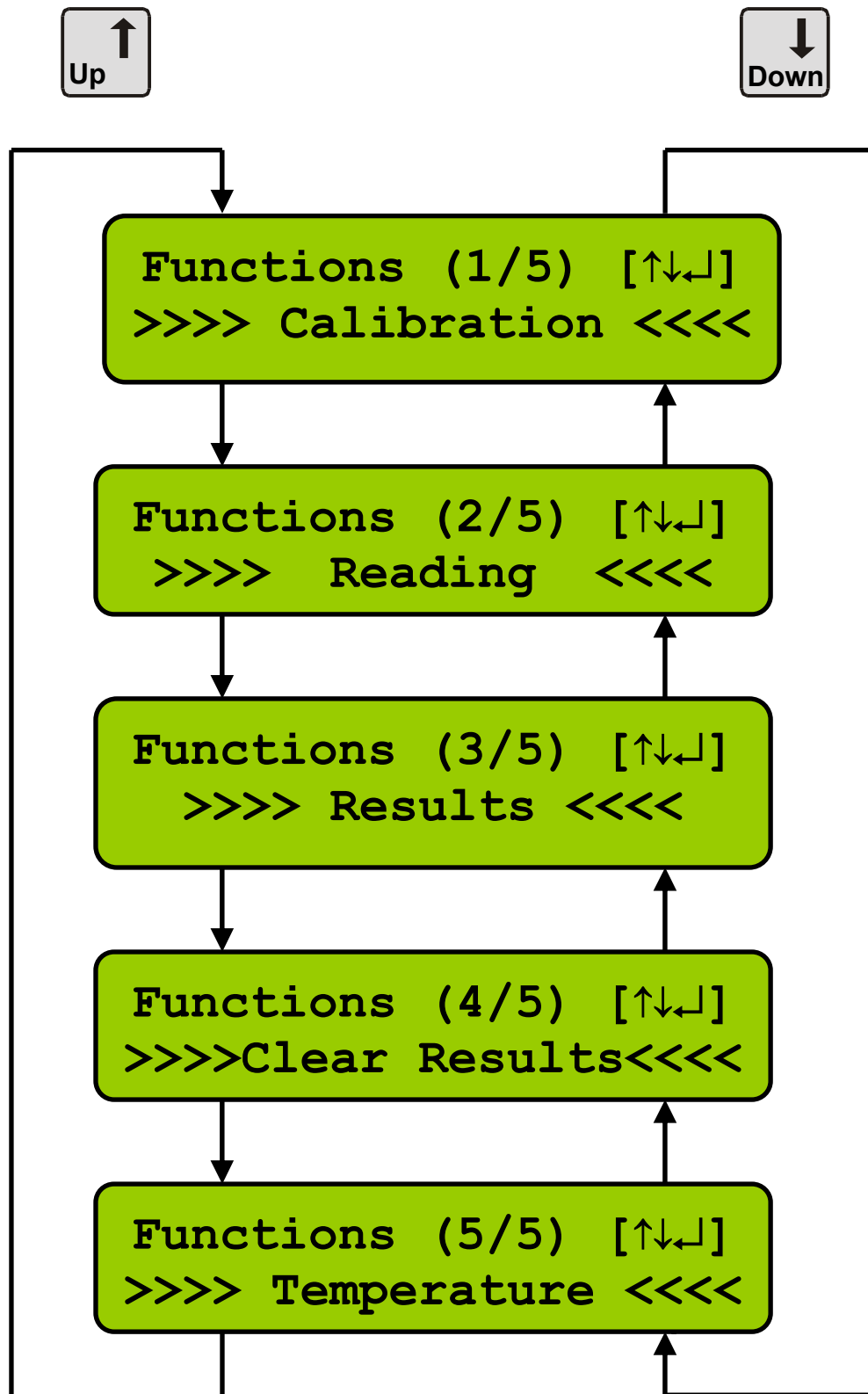


FIGURE 5. The *Function* option.

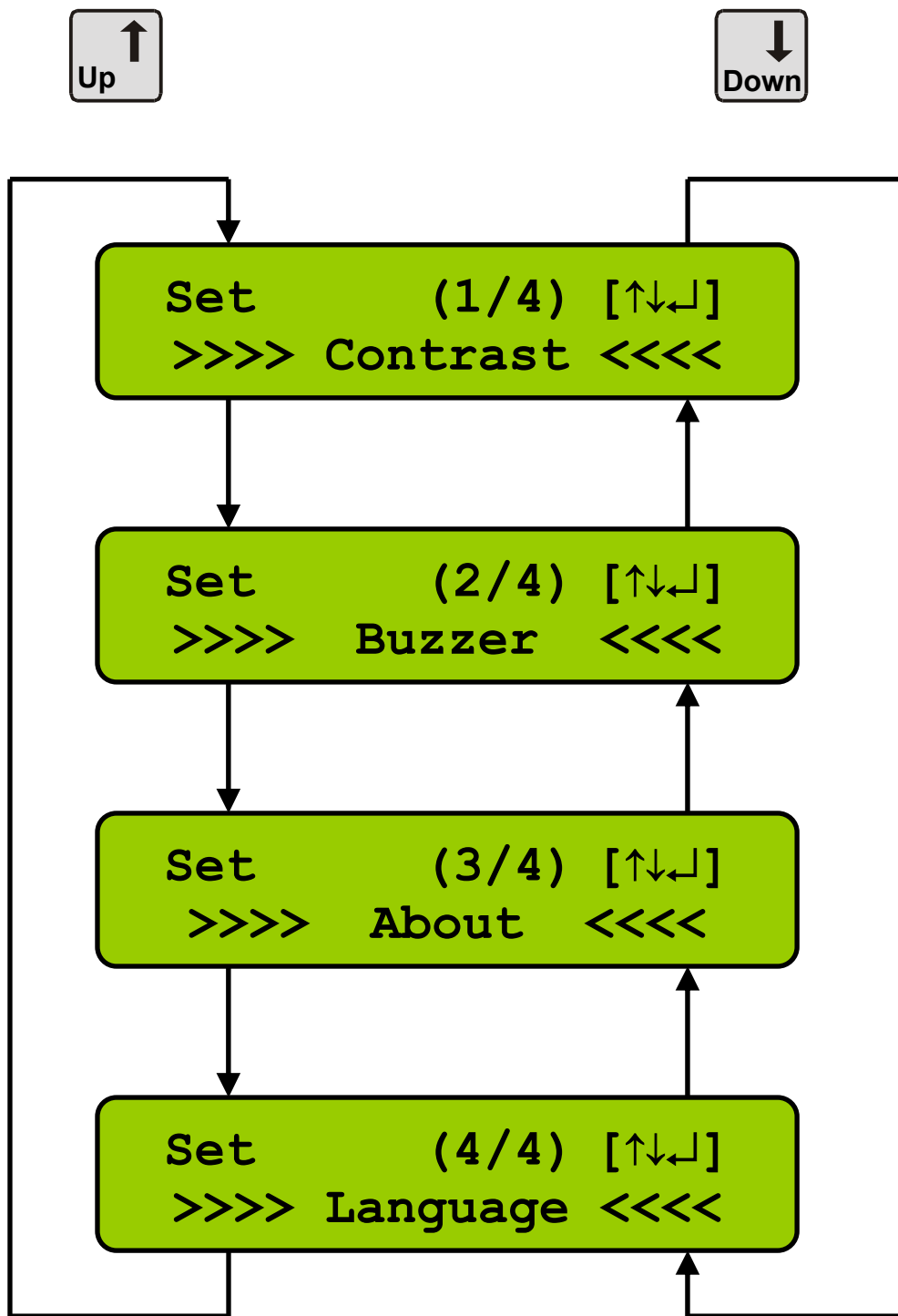


FIGURE 6. The *Set* option.

### **6.3. Operation Modes: Functions**

#### *6.3.1 Using the Measurement Mode*

Before you start taking measurements you need to prepare the glass pane. Select the flattest area of the glass for the measurement. If the selected glass area is dirty, have it cleaned using common washing agents, and then dried.

To take measurements:

- A. Prepare your AMX 710 for taking measurements (see Section 6.1).
- B. If necessary, calibrate the AMX 710 (see Section 6.3.4).
- C. Hang your AMX 710 meter on your shoulder using the strap band provided with the AMX 710 diagnostic set.
- D. Hold the Illuminator in one hand, and the Receiver in the other in such a way that their outgoing cables are directed towards the ground.

**IMPORTANT! Take special precautions while handling the Receiver and the Illuminator. Make sure that you do not drop them and that they are protected from shock. These components are equipped with sensitive optical units. As a result of shock, an optical unit may be damaged or become out of tune.**

- E. Mount the **Illuminator** and the **Receiver** on the examined glass **slowly bringing them closer together** in such a way that the examined glass is between them. You must keep your hand holding the **Illuminator outside the examined vehicle**, while the hand holding the **Receiver is inside the vehicle**. The light beam emitted by the Illuminator must be aimed at the measurement "eye" in the Receiver. Both the Illuminator and the Receiver are fitted with powerful magnets that help to fasten these units securely on the examined glass (these units pull each towards the other, pressing against the tested glass). The Illuminator and Receiver's axes are aligned with the resulting magnetic forces. The white arrow indicators on the Illuminator and the Receiver must be directed down, towards the ground, if you examine glass that is in a slanting or vertical orientation. If you check the glass oriented horizontally (the Receiver must be placed in the bottom) the arrow alignment does not matter. Make sure that the cords exiting both the Illuminator and the Receiver **hang loosely**.

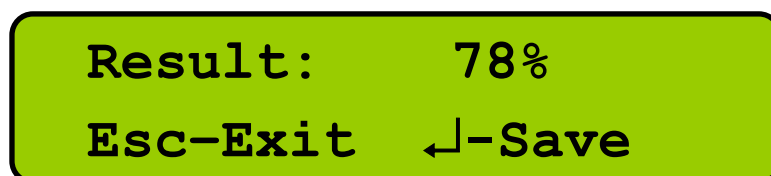
**IMPORTANT! Make sure that the Illuminator and the Receiver are positioned in the same axis! While mounting the diagnostic set on the glass take special precautions. Do not attempt to disconnect the mounted Illuminator-Receiver pair while measurements are being taken, as this will result in distorted results!**



F. Select the *Measurement* option, and then press the  ENTER key.

G. Your measurement will be executed in an automatic manner. This may take up to 2 minutes.

H. The measurement result will be displayed on completion.



While taking measurements the AMX 710 takes into account the impact of the external lighting.

**The displayed 78% value is the result of the glass transparency measurement.**

I. You can press the Esc key to return to the AMX 710 main menu options, while pressing the ENTER key will give you the option to save the test results to the AMX 710 memory.

**The proper use of the AMX 710 glass transparency meter cannot damage or leave any permanent, indelible markings on the examined glass.**

**IMPORTANT! If your measurement is concluded with an error message, you need to perform calibration and repeat the measurement.**

### 6.3.2 Saving Your Measurement Results

To save your measurement results:

- A. Press the ENTER key on successful completion of your measurement.
- B. Using the arrow keys, select the type of the examined glass. You have these options:

*windscreen* – the windscreen;

*front – right* - the front door window on the passenger's side;

*front – left* - the front door side window on the driver's side;

*other* – other windows that do not affect the driver's range of vision.

C. Having selected the type of examined glass, press the ENTER key.

D. As a result, you will be presented the current measurement name, for example "Measurement 4", which will be used by the AMX 710 to store the measurement results. Pressing the ENTER will cause the measurement result to become stored in the AMX 710 meter's memory. You can interrupt and terminate the saving procedure in progress at any time by pressing the ESC on the Operator Panel.

### 6.3.3 *Switching the Illuminator ON / OFF.*

While measurements are being taken, the AMX 710 automatically switches the Illuminator lamp on and off for a certain short time.

**Warning!** Some parts of the Illuminator may become hot, as a result of the light source remaining on for longer time. Take special precautions while handling the Illuminator as to avoid injury to yourself or others. The allowable time of continuous operation (taking subsequent measurements one after another) is 1 hour.

**Warning!** Never direct the active light source towards your own or someone else's eye.

### 6.3.4 *Calibrating the AMX 710*

Calibration lets you set calibration parameters of individual measurement channels. Before you start the calibration procedure, make sure that you really need to do it. If you take subsequent measurements of glass that has identical parameters under similar conditions, you do not have to calibrate your AMX 710 before each measurement.

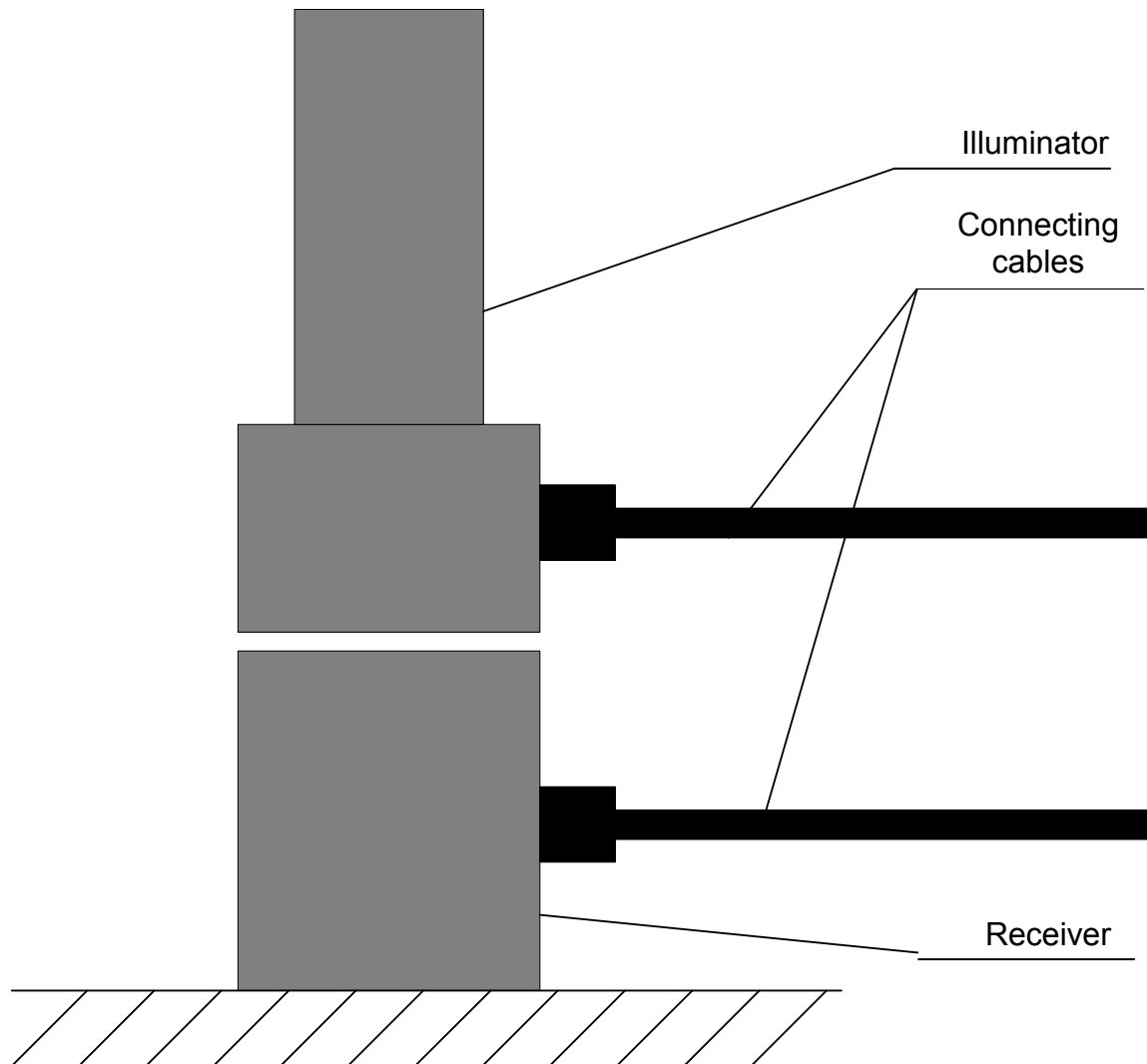
On completing your AMX 710 calibration you can set to take your measurements. For detailed description of how to conduct glass transparency measurements with the AMX 710 refer to Section 6.3.1.

To perform calibration:


A. Attach the Illuminator to the Receiver directly, so that they are not separated from each other by any media (for example, glass, ring, etc.).

B. Position the joined Illuminator-Receiver pair on a flat surface in such a way that the Illuminator is on top of the Receiver (Figure 7).

**IMPORTANT! Do not attempt to disconnect the joined Illuminator-Receiver pair while calibration is in progress, as this will result in inaccurate results!**




**FIGURE 7.** The proper alignment of the AMX 710 Illuminator and Receiver heads during calibration.

- C. Switch to the Calibration mode by pressing the  key, or by selecting the *Calibration* option accessible from the *Function* menu.

A Calibration confirmation dialog will be displayed as a result.



- D. To perform calibration select the **YES** option, and then press the  ENTER key.

Otherwise, press the  ESC key, to cancel calibration.

- E. Your calibration will be executed in an automatic manner. It will take about 1 minute.
- F. Having completed the calibration, the AMX 710 meter will display information whether the calibration procedure has been successful or not. If the calibration has been finished successfully, you use the Esc and ENTER keys, to decide whether to replace previous calibration data the recently obtained data. If your calibration has failed, make sure that the Illuminator is properly joined to the Receiver and the joined pair is positioned correctly as illustrated in Figure 7. If calibration still fails, contact the Service or Manufacturer's facility.
- G. On saving the new calibration results the Calibration mode is exited and you can resume taking your measurements. For detailed description on how to conduct glass transparency measurements with the AMX 710 refer to Section 6.3.1.

### 6.3.5 The Reading Mode

The Reading mode enables service technicians to take continuous measurements of glass transparency. **This mode can only be accessed by Service personnel.** It displays information on the general light transmittance level of the examined glass without taking into consideration the effect of external lighting conditions on the measurement output.

### 6.3.6 Viewing your Measurement Results

You can store up to 10 measurement results in the AMX710 memory. This data will be preserved even after the AMX 710 is powered off. You can also retrieve them at any time by entering the data-reading mode. To access this function, select the *Function* menu, and then the *Results* option. On switching this mode, the AMX 710 will display information on the most recent measurement.



**Measurement 2: 78%**  
**windscreen**

Use the up and down arrow keys to scroll through all the stored test results. When you have finished viewing the results, press the Esc key, to exit the viewing mode.

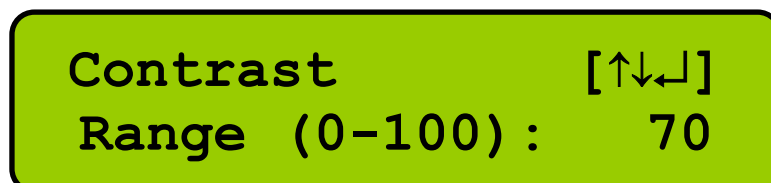
### 6.3.7 Clearing Your Measurement Results

You can clear the measurement results that are stored in your AMX 710 memory. You can access this function by selecting the *Function* menu, and then choosing *Clear*. A confirmation dialog will be displayed that gives you the option of clearing the measurement result memory. Selecting the YES option to confirm the deletion of data will actually clear the stored measurement results.

## 6.4. AMX 710 Operation Settings

### 6.4.1 Adjusting the Contrast Setting

You can adjust the LCD contrast settings (such as brightness and sharpness level of displayed text). You can access this function by selecting the *Set* menu, and then choosing *Contrast*. Having accessed this mode, you will see information on the current Contrast value.



**Contrast** [↑↓←→]  
**Range (0-100): 70**

You can adjust the Contrast value to set it to any value within the 0–100 range. Pressing the up or down arrow keys changes the Contrast value in 1% increments. To exit the Contrast Adjustment mode press the Esc key. This action will keep the value that was in effect before

you entered this function. Otherwise, press the ENTER key to make changes in the AMX 710 display settings and store them in the memory.

#### 6.4.2 *Setting the AMX 710 Buzzer Tone*

You can use this function to enable the key tone (buzzer) to be audible, for example, when you press the keys on the device keypad. You can enable this function by selecting the *Set* option, and then choosing *Buzzer*. As a result, you will view the current buzzer status.



The ON status indicates that the buzzer is audible, while the OFF status means that the buzzer key tone is not sounded. You can make the desired setting using the up or down arrow and then confirming your choice with the ENTER key.

#### 6.4.3 *Displaying Information about the AMX 710*

You can use the *About* menu item to view information about your AMX 710 meter. You can access this function by selecting the *Set* option, and then choosing *About*. This function displays the same information that is displayed on switching the AMX 710 on. You can view:

- The device name.
- The firmware version.
- The Manufacturer's Name.

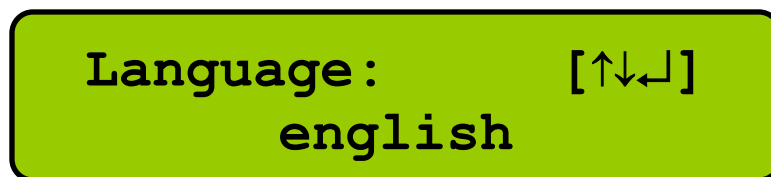
This information is displayed for about 3 seconds.

#### 6.4.4 *Changing the AMX 710 Display Language.*

Using this function you can change the language used to show messages on the AMX 710 LCD display. There are three language versions you can choose from:

- Polish
- German.
- English.

You can access this function by selecting the *Set* option, and then choosing *Language*. The LCD will prompt you to confirm that you want to change the display language. Selecting YES will cause information on the currently used language to be displayed on the LCD.



Use the up or down arrow keys to change the AMX 710 current interface language. Confirm your selection by pressing the ENTER key. This will cause the new language setting to be saved to the AMX 710 meter's non-volatile memory. As a result, each time AMX 710 starts, it will display its messages in the language corresponding to the setting you have just made. Otherwise, press the Esc key to exit the language selection menu and return to display settings that were in effect before you have accessed the language selection function.

### ***6.5. How to Interpret Your Measurement Results***

As specified by relevant regulations, glass transparency measured in the examined vehicle can be concluded to be sufficient if:

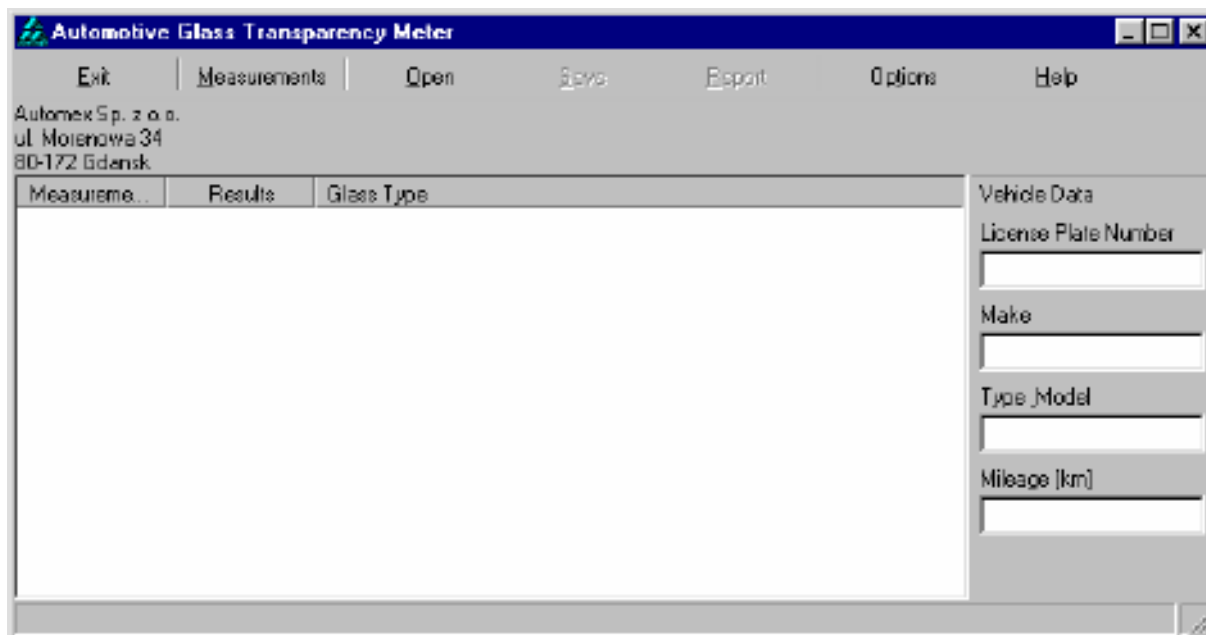
- it is no less than 75% for front glass (windscreen, etc);
- it is no less than 70% for non-front glass panes;
- it may be less than 70% for glass panes that do not affect the driver's range of vision (e.g. roof glass);
- it meets other specific requirements of a relevant regulation.

After taking measurements, you should fill in a corresponding measurement report, which is described in the subsequent section of this User's Guide.

## 7. The AMX710 Software for a PC

The AMX710 software application can be used to read and process measurement results stored in your AMX 710 glass transparency meter. You can use it to print a summary report on tests conducted on a given vehicle.

On starting, the program you will display its main screen, as shown in the following figure:



Use the top menu bar to access the following items:

*End* – terminate the program.

*Measurement* – read measurement data from the AMX 710 glass transparency meter.

*Open* – load measurements saved previously to hard drive.

*Save* – save measurement data to the hard drive.

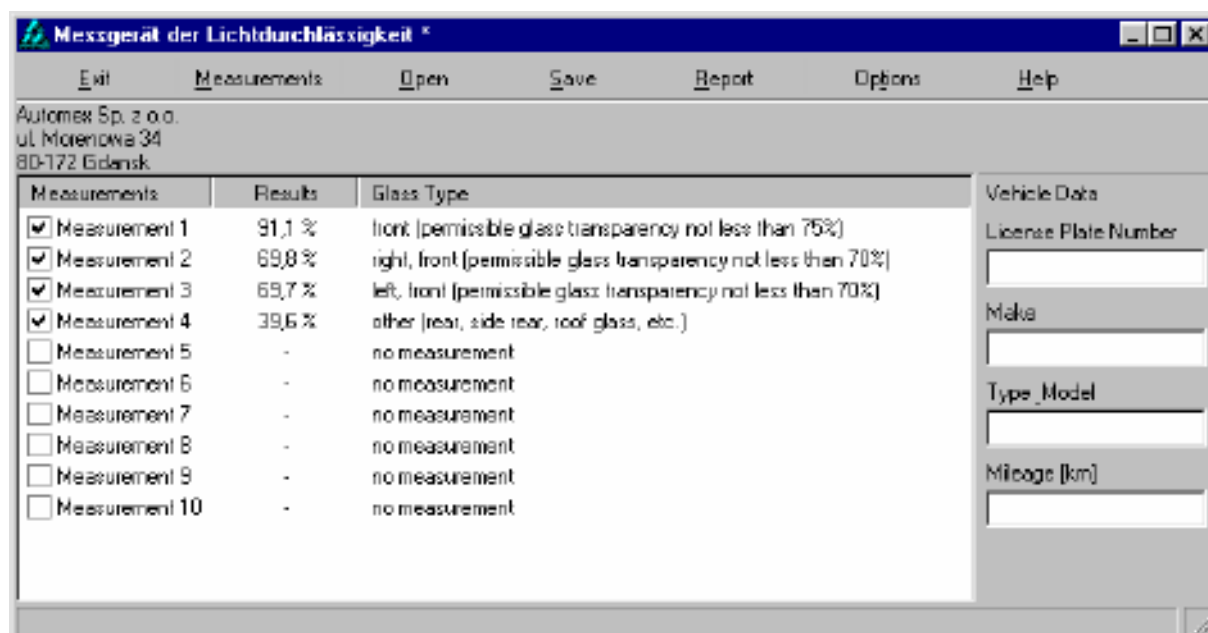
*Report* – preview and print measurement reports.

*Options* – set the COM port used to connect the AMX 710 automotive glass transparency meter and set information on the inspection station where the device is used. This information is printed in an appropriate place on the report printout.

The right pane of the main screen contains text fields that you can use to enter information on the examined vehicle. This vehicle information will be attached to the measurement results that are saved to the hard drive of your PC.

To print a measurement report:

- A. Take a series of measurements to check the light transmittance values in the examined vehicle's windscreen, rear window, side windows, etc. (see Section 6.3.1). It is recommended that you clear the AMX 710 results memory before you start your new measurements (see Section 6.3.7).
- B. Connect your AMX 710 to the PC, using the specialized cable provided with the AMX 710 diagnostic kit.
- C. Turn your AMX 710 power ON.
- D. Read the results (pressing the *Measurement* button).



- E. Select measurements you want to include in the printed report by checking corresponding check boxes.
- F. Fill in the vehicle information text fields.
- G. Save your measurement data to your hard drive.
- H. Press the *Report* button.
- I. If the displayed information is correct, press the *Print* button.

## 8. Terms of Warranty and Service

AUTOMEX Sp. z o.o. grants you warranty for the duration of 12 months, which begins on the date of purchase. The AMX 710 automotive glass transparency meter is sold to the customer under terms and conditions that go in effect on the day of purchase.

Complaint claims should be made in writing and submitted to your authorized dealer, or directly, to the Manufacturer.

Detailed warranty conditions are specified in the warranty card accompanying each device.

***Warning! Unauthorized repair may damage your product, deteriorate its diagnostic performance, and void your warranty!***

Manufacturer's Address:

AUTOMEX Sp.z o.o.

80-172 Gdańsk, ul. Morenowa 34

## Information about utilization of the device

This device was made of materials, which may have negative influence on human health and environment if they are not properly utilized. PLEASE RECYCLE!



This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Net weight of the device with necessary equipment: 1,7 kg.

**Declaration of conformity**

Manufacturer

**AUTOMEX Sp. z o.o.**

**80-172 Gdańsk**

**ul. Morenowa 34**

Declares that the products:

**AMX710**

**AUTOMOTIVE GLASS TRANSPARENCY METER**

According to the Electromagnetic Compatibility (EMC) Directive 89/336/EEC adopted on 3 May 1989:

89/336/EEC  
changes 91/263/EEC  
92/31/EEC  
93/68/EEC

Conforms to the following product specifications:

PN-EN61000-4-2:1999 +A2:2002	class <b>B</b>
PN-EN61000-4-3:2002	class <b>A</b>
PN-EN55022:1998	class <b>B</b>

**DYREKTOR**

**mgr inż. Jan Pińczak**

Gdańsk, 4/05/2004

.....  
City and Date of Certificate Issue

Jan Pińczak

.....  
Name and Signature of the Certification Authority