Tru-VEND®
VENDING MACHINES

Midi-Buffet®

USER'S MANUAL

Version: 15.12

"SHE SELLS, YOU EARN"

ELEKTRAL®
ELEKTROMEKANİK SAN. ve TİC. A.Ş.

CE   GlobalGROUP ISO 9001   UKAS QUALITY MANAGEMENT 039   NSF®

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INTRODUCTION

Dear User,

Thank you for purchasing the Midi-Buffet® vending machine, a product manufactured by ELEKTRAL. As a company developing integrated production, our quality certified production has continued since 1978 based on high technology. This integration can be broadly described as R&D, Electronics, Electro-mechanics, Production Lines, Mechanics Workshop, Moulding Workshop, Plastic Injection and Vacuum Forming Group. With T.R. State Planning Organization's various incentives, the factory has reached an approximately 20,000 m2 production area with the capability of making many electronic machines and components for professional use. Most of our machines have been produced for the first time in our fatherland. Starting with Germany, our company is technologically cooperating in terms of production, representation and OEM production with the sector's leading companies from UAE, Bulgaria, India, Great Britain, Iran, Israel etc. We have direct or indirect exports to countries in Europe, Asia, America, Africa. Furthermore, to expand our direct sale markets in foreign countries our intensive works and exhibition activities continue uninterruptedly. As a result of our rapidly growing export potential, our company has been awarded with a first place prize in 2004, during "Rising stars of e-commerce in Turkey" competition. The same year we were awarded with the "25'th Anniversary Award of EBSO (Aegean Area Chamber of Industry), "The Chamber of Industry, Innovation, Employment" with continuous R&D projects being supported by TUBITAK (Turkish Scientific Research Council). In 2011 Istanbul Chamber of Industry has chosen our company as "INNOVATION FINALISTS". In the year 2012, with its innovative Vending Machine project, Elektral has been awarded as an "TET (Turkish Electro Technology) R&D Project Market Finalist" by the Ministry of Economy, Turkish Export Assembly and IMMIB (Istanbul Mining and Metal Exporters Union). Another award won by Elektral is "The year 2013 First Rank in Innovation" organised by IAOSB (Izmir Ataturk Industrial Zone)-Ege University. Believing that real growth target is to be achieved with a global industrial understanding and a global move, Elektral is motivating all its employees with this understanding and continues rapidly with an intensive R&D work to reach determined goals.

Tru-VEND® vending machines have been designed and produced to provide more spare time to its owners. They ease your life in various situations with multipurpose and practical use. Our products provide you profit and comfort for 24 hours continuously, loyal to the owner, with no employee costs. Please note that as for all industrial machines, its necessary to periodically check and maintain your machine. Please use the machine as recommended in this manual.

Elektral Products are produced in environmental friendly facilities, causing no harm to the nature and living creatures.

- **Made in Turkey**
- **Alteration rights reserved**
- **No claims can be accepted by our firm regarding the applications of this instrument from the second or third parties.**
- **All rights Reserved**

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The arrow-end lightning symbol inside the equilateral triangle informs that in the context of the product, there is enough amount of 'uninsulated' dangerous voltage to cause an electric shock.

The exclamation mark inside the equilateral triangle informs the user that there are important instructions of usage and information inside the booklets given with the equipment.

Midi - Buffet® **BEFORE USE AND SAFETY WARNINGS**
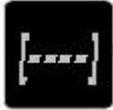
Midi - Buffet® TruVEND Vending Machines are secured by three electronic PIN CODEs and two mechanic locks which only allows the owner to operate the machine. Please do not share your PIN CODE. If you forget or lose the code, get in contact with our factory staff.

Midi - Buffet® Do not wet the machine. Please unplug from the electricity supply and use only a damp cloth to clean the vending Machine.

Use the vending machine only on Earthed Electrical Supply.

Please carefully read the articles where you see this Warning Sign in the User's Manual.

Midi-Buffet® With Cooling: 220 V AC ±%10 50 Hz,
Without Cooling 90-260 V AC 50-60 Hz,
is designed to operate between given electrical limitations.

WARNING: Please follow the instructions given in the User's Manuel. Otherwise incorrect usage can cause damage to the Vending Machine and the environment.

1. GENERAL DESCRIPTION

The Vending Machine that you have chosen has been produced by our factory using high technology systems and modern aesthetic design. Tru-VEND Vending Machines can be used in all public areas such as; hotels, factories, hospitals, restaurants, clinics, cinemas, bus terminals, petrol stations, doctor & lawyer offices, malls, etc. Backwards traceability is also possible on the performed machine modifications by the serial number on each machine.

- **International norms, In conformity with CE Norms and produced under ISO 9001: 2008 QMS.**
- **Fully Microprocessor Controlled MDB and Executive protocols supporting Change Giver, Coin Selector, Bill Validator and Cashless Payment Systems.**
- **Multi-Selection Snack Vending Machine with Product Display Window**
- **10 Selections, 200 pcs Product Storage Capacity**
- **LED Illumination**
- **Alarm against Vandalism and Tilt Sensor**
- **User Friendly Graphic LCD**
- **Ensures reliable operation with IR Product Sensor**
- **Easy Product Loading**
- **3x4 User Friendly Touchpad Capacitive Keypad & Anti-Vandalism Weather proof Metallic Keypad (optional) for Outdoor applications**
- **Real Time Time/Date Function Enabling Timetable Pricing**
- **Effective Electronic thermostat controlled energy efficiency cooling feature (Cooling Optional)**
- **Preset timetable Power Saving Mode with programmable low temperature level**
- **Optional LCD for Digital Advertisement**
- **User Friendly Customer Interface and Control Menu**
- **High storage capacity EEPROM**
- **Very High Speed and availability of different Optional Units with 16-bit high performance processor**
- **GSM/GPRS Remote Access and Data Transfer (Telemetry) support**
- **Distance Data Transfer cable connection with RS 232 interface for Master-Slave Operation (Optional)**
- **Data Transfer to USB Flash Memory with USB Host Mode (Optional)**
- **Remote Firmware Update Availability with Boot-loader for GPRS Modem Equipped Machines**
- **External SD Card, Ethernet Module, Wireless Module connection availability (Optional)**
- **Compatible with all currencies**
- **BITE (Built-in Test Equipment) automatically Fixing problems and/or Warning Messages on LCD and Collecting data on errors.**
- **Enhanced Motor Control System enabling detailed functional control**
- **Adjustable Tray Selections enabling Production as per Customers requisites**
- **Compact Design Slim Line Small Location Vending Machine**
- **Easy Selection Pricing Feature**
- **Menu Entry with 4 Digit PIN Code Protection**
- **Large Dispensing Hole (140 mm) and Self Locking Swinging Product Dispensing Slot**
- **ALARM Equipped against Vandalism. 120 db Alarm against unauthorized and forced Access**
- **Highly corrosion-resistant production material**
- **Robust Steel Cabinet**
- **Project based quantity orders for custom made special vendors**

Physical Features	Electrical Features	
Width: 820 mm Height: 1250 mm	Operating Voltage	
Depth: 220 mm Weight: ~ 45 kg	With Cooling	: 220V AC +- %10- 50 Hz
	Without Cooling	: 90-260 V AC – 50-60Hz
	Power	
	With Cooling	: 100 W
	Without Cooling	: 20 W

2. MAIN PARTS
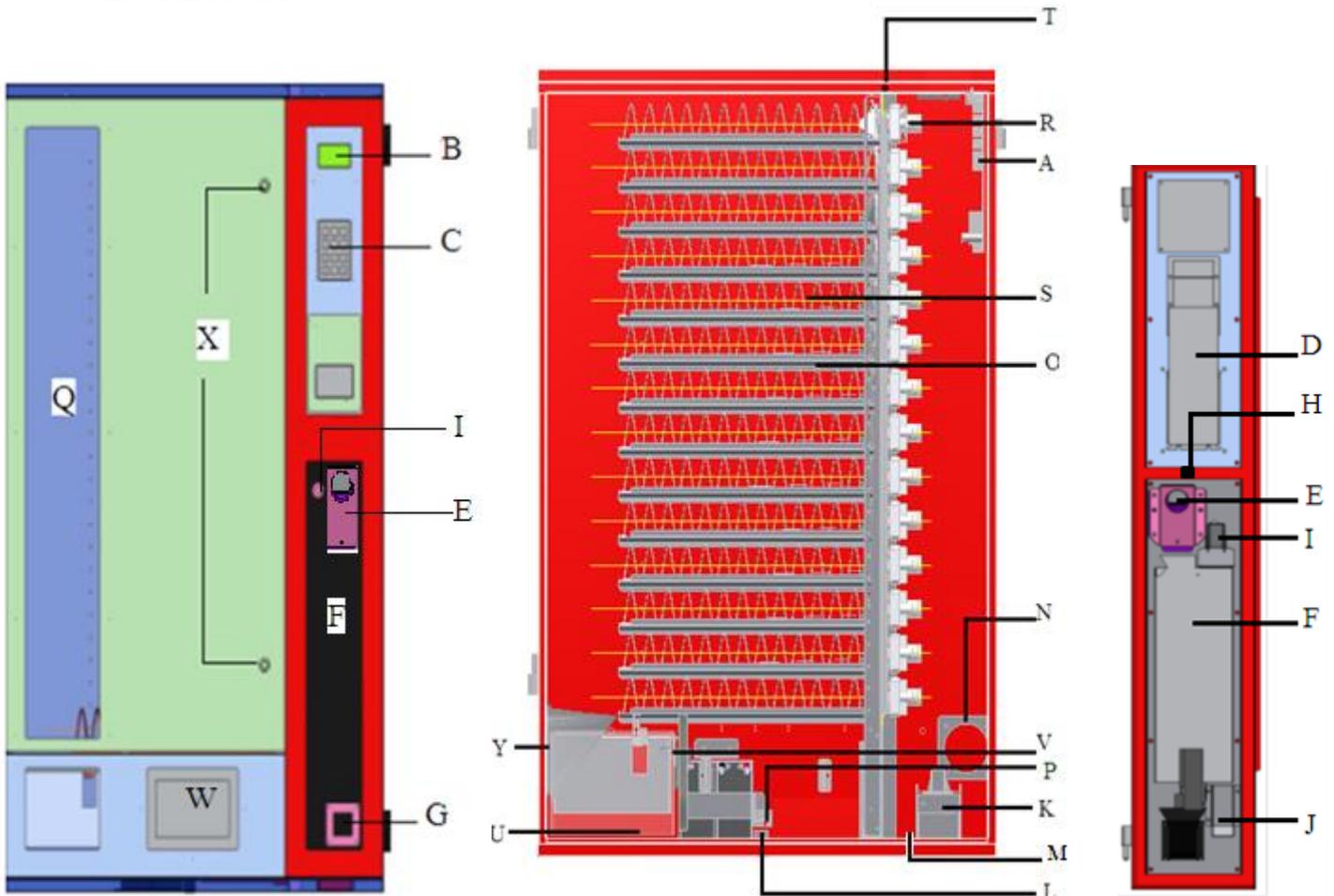
A- Main Board (VMC)   : Electronic Board / Vending Machine Controller
B- Graphical LCD   : 128x64 pixels white pixels on Blue Backlight
C- Touchpad Keypad   : 3x4 Capacitive Touchpad Keypad
D- Bill Validator (Optional)
E- Coin Entry Slot (Optional)
F- Change Giver (Optional)
G- Coin Return Chute (Optional)
H- Vibration Sensor
I- Coin Return Push Button (Optional)
J- Cash Box Entry (Optional)
K- Cash Box (Optional)
L- Cooling Evaporator Fan(Optional)
M- Power Supply Module
N- Tweeter
O- Tray
P- Energy-Cooling Plugs
Q- Front view (Transparent LEXAN)
R- Motors (24 V)
S- Spirals
T- Magnetic Sensor
U- Compartment : Where Products fall before being picked up, Product dispense hole.
V- Infrared (Receiver)
W- Advertisement Space

X- Mechanical Lock : There are Two Mechanical Locks and they are same
Y- Infrared (Transmitter) & Adjustable Light Intensity LED Illumination Module

2.1 Product Trays

Filling up the Vending Machine and Placing the Products to the Trays

The vending machine has 12 Trays (standard). In the machines with an optional cooling unit, products requiring cooling can be placed in the bottom tray. To avoid any damage, place any breakable products into the trays close to the compartment.

To load products to the trays:

- Adjust the spiral to drop the product in an easy way by pulling the spiral forward, turn and let go.
- Start placing the products in the slots between Spiral Steps.
- Place only one product in each slot.
- Select the correct spiral steps for your products

Use Aluminum Magnet Guides on both sides of the Spirals to provide a successful vending.

It is possible to change the spiral steps, sizes and loading capacity, depending on the available spiral types. Maximum number of trays can be 14 (Optional).

⚠ **WARNING:** Placing the products incorrectly may cause failure during dispensing the products.

2.2 Control Panel
All operational controls can be followed on the Graphic LCD Screen, Payment System and Touchpad Keypad are installed on this panel.

2.2.1 Touchpad Keypad
It used for Selecting Products and Vending Machine Settings. It has been explained in details under programming section. IP 65 Weather-proof Anti-vandalism Metal Keypad is Optional.

2.2.2 Graphic LCD Screen
All the operations are being displayed on the Graphic Liquid Crystal Display-GLCD for easy usage. Will be referred as GLCD thereafter.
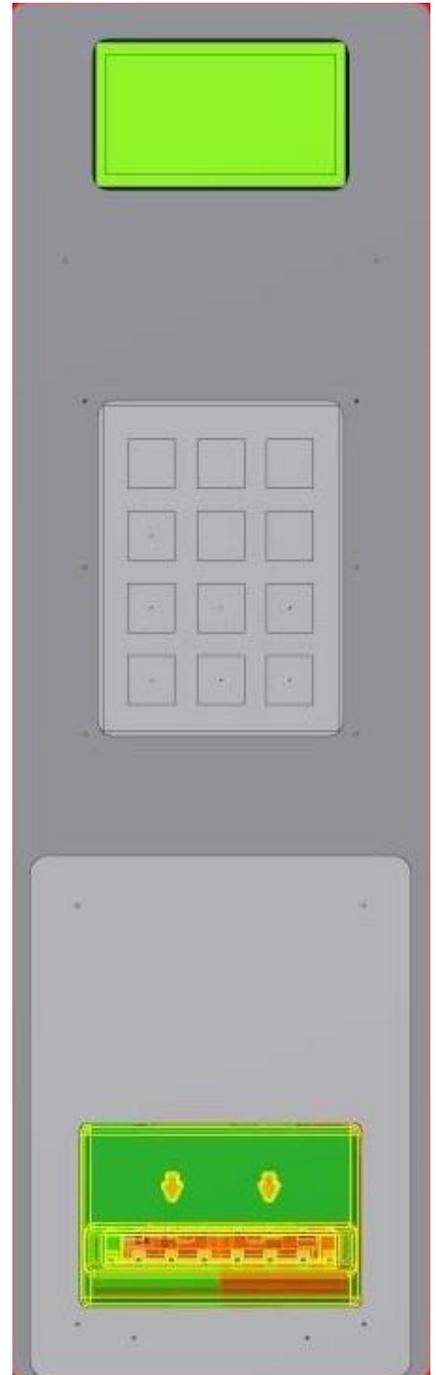
2.2.3 Payment System (Optional)

Coin Selector accepts pre-defined coins and proceeds with the payment process. It recognizes the domestic currency which has been programmed. The mechanism will not accept the currency which has not been defined and the payment will be returned from the Coin Return Chute. The system has Automatic Currency Recognition feature as per the assembled Payment System.

The Vending Machine which is eligible for MDB protocol can be equipped with Change Giver, Coin Selector, Bill Validator and/or a combination of Bill Validator and Change Giver, Cashless Payment Systems as per customers' choice.

Please note that the Payment System is Optional and not all Midi Buffet Vending Machines are Equipped with Payment System.

2.2.3.1 Coin Selector

Only accepts coins. It can accept different types of Coins. There is No Change Function.

2.2.3.2 Change Giver

There are 4 tubes (may change as per the ordered model) where the coins are being collected for change giving. The coins of the main currency defined to the device are being collected in these 4 tubes to be used later for change giving. Once the tubes are full, coins are sent to the Cash Box under the Change Giver Unit automatically. The coins are collected in the Cash Box

Please check Chapter 4.2.1.1 for the settings of the Change Giver Unit.

2.2.3.3 Bill Validator

The bill validator accepts only the pre-defined banknotes and proceeds with the payment process.
It recognizes the currency bills which had been programmed and returns the unidentified or counterfeit banknotes. It can be used at the same time with either MDB Supporting Coin Selector or Change Giver.

2.2.3.4 Cashless (Prepaid) Payment Systems

This application enables the customers to shop without using Money. A Prepaid Card is used instead. This cashless system enables the customers to load credit to their cards and use their credits for shopping on the Vending Machine. When inserted into its slot on the Vending Machine, the available credit of the User is displayed on the GLCD. Customers may easily load credits into their cards by inserting Money and the shopping value is being deducted from their credits.

2.3 Coin Return Push Button

This button is used for getting the Change after shopping. After pressing this button Change can be collected from the Coin Return Chute.

2.4 Coin Entry Slot

This entry slot is used for inserting coins into the Vending Machine. Coins are being placed into the slot then simply being pushed upwards.

Inserted coin value can be seen on the screen. If the inserted coin is not defined or is an imitation then the coin drops down to the Coin Return Chute and is not accepted.

2.5 Coin Return Chute

This chute is for the Change and/or Coins which cannot be validated.
Coins can be collected after falling into the return chute.

2.6 Cash Box

Cash Box is where accepted coins are collected (excess money over tubes). For increased security the cash box has a padlock.

The cash box has to be checked and emptied periodically or the cash box can be filled up with coins and coins may drop around which may cause problems.

2.7 Electronic Modules

Midi-Buffet is fully microprocessor controlled and the electronic modules in use are as follows:

a) Power Supply Module: This module is to provide DC Voltage
b) Main Electronic Module: All functions of the Midi-Buffet Vending Machine are being controlled by this Module.
c) Touchpad Keypad
d) Graphic LCD Screen
e) IR Product Sensor: This module is used for checking the Proper Physical Vending Process. If there is no real vend then the credit will remain so that another product can be selected or the credit can be taken. (Chapter 4.2.1.2)

More detailed explanations regarding Electronic Modules can be found in "Technical Service Manual" prepared for the technical department.

⚠ **Please contact our Technical Service for any failures on electronic modules.**

3. VENDING SAFETY

There are many security precautions against theft and other vandalism occasions with the *Midi-Buffet.*

The Cabinet and the Solid Lexan Front have been designed with maximum safety using robust production materials. There are Security Locks on the Vending Machine and the Cash box.
There are three security passwords as electronic security precautions.

a) **Alarm Password:** This password has to be entered prior to opening the door of the Midi-Buffet. When opened without entering password, the Midi-Buffet will give a 120db audio alarm. The alarm is being activated automatically after 10 seconds the front door has been closed. Default alarm password is "1234 ".

b) **Administrator Password:** This admin level password enables Access to all settings of the Midi-Buffet. Default administrative password is "8888 ".

c) **User Password:** This level menu entry enables Access to menus which are authorized by the administrator. (Chapter 4.2.1.8). Default User Password is

"0000". Administrator Password and User Password cannot be the same.

4 PROGRAMMING

All programming settings of the *Midi-Buffet* can be done using the Touchpad Keypad on the Control Panel. Keypad buttons are as follows;

X EXIT/NO
√ SAVE/YES/SELECT

8. Up Arrow to Scroll Up

0 Down Arrow to Scroll Down

7 To copy the selected value in some menus i.e. Price Settings

9 To Paste the copied Value

Number Keys 1 to 9 are used for entering values.

To enter programming menu press 'X', '√', '√', '√', '√', '√' in sequence and enter 1234 default alarm password.
Open the front door of the Midi-Buffet and open the protective door for access to main electronic board. Press the button on the Main Board (**BUT1**)to enter the menu.
Enter the 'Administrator Password' or the 'User Password' using the keypad.
SCROLL IN THE MENU Using (8) UP and (0) DOWN keys and Select the desired Menu by (√) SELECT.

4.1 Main Menus

Settings: Selection of Payment System, Date-Time Settings, Cooling Unit Settings, Password Settings etc. Settings can be done in this menu.

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READY TO OPERATE
Please Insert Coin

26 C   12: 34

MAIN MENU

SETTINGS

STA   PASSWORD

PRI   [****]

MA

ACCESSORIES

MAIN MENU

SETTINGS

STATISTICS

PRICES FİYATLARI

MACHINE TEST

ACCESSORIES

SETTINGS

VALIDATORS
IR SENSOR
COOLING UNIT
DATE-TIME
LANGUAGE SETTING
CHANGE PASSWORD
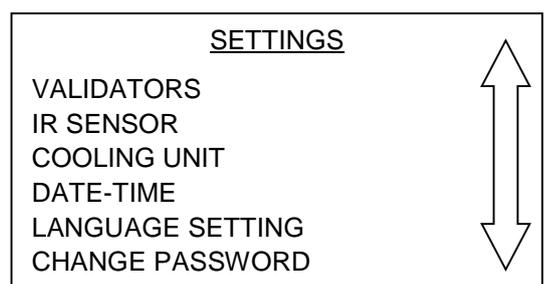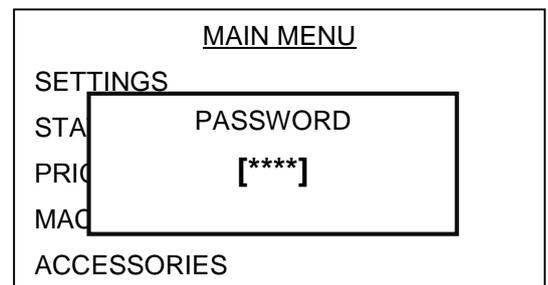
Statistics: All statistical information available can be seen inside this menu.

```
                           STATISTICS
          SALE COUNTER
          CASH COUNTER
          ERRORS
          RESET
          GET REPORT
```
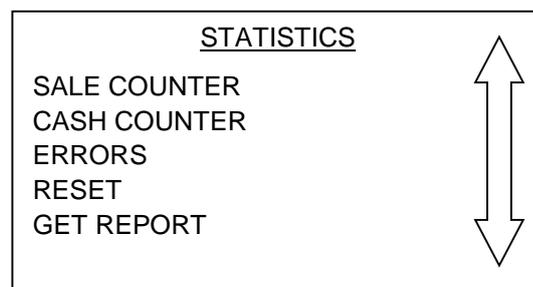
Price Settings: This menu is for setting Prices, Currency Settings and Discount Rates.

```
                             PRICES
          PRICE SETTINGS
          EXCHANGE OF RATE
          DISCOUNT
```
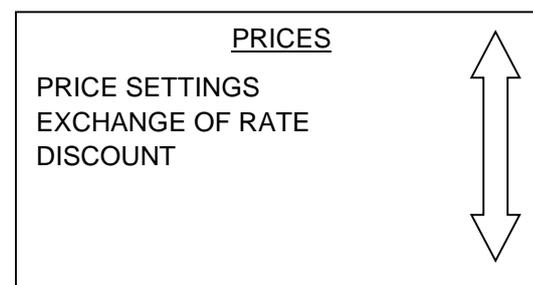
Machine Test: This menu is for testing the hardware equipped on the Vending Machine
(motors, IR Product Sensor etc.).

```
                          MACHINE TEST
          MOTOR CONTROL
          IR CONTROL
          MOTOR STATUS
          VALIDATORS
          TOUCHBOARD
          RELAY CONTROL
```
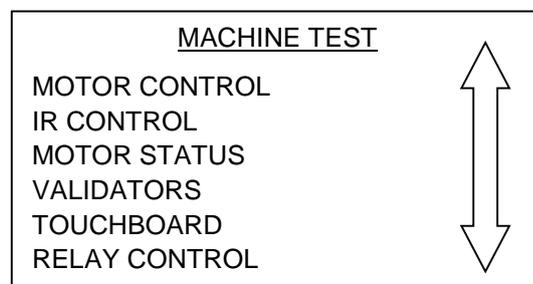
Accessories: This menu is for the settings of Alarm, Impact Sensor and GSM/GPRS etc. accessories available.

```
                          ACCESSORIES
          ALARM
          BILL
          GSM/GPRS
          TILT SENSOR
```
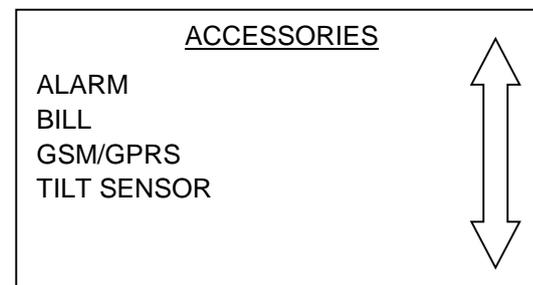
4.2 Menus

To enter sub menus, you need to enter Main Menus and scroll.

**Using SCROLL Keys find the Menu you wish to proceed and press (√) SELECT.
Then proceed with entering new values and/or using (√) SELECT button save the changes or Exit with X button.**

4.2.1 Settings Main Menu

4.2.1.1 Payment System

WARNING: **The standard Coin Mechanisms installed on the Midi Buffet are compatible with MDB protocol. If there will be another Coin Mechanism in use with the following protocols; EXECUTIVE, PARALEL and CCTALK the compatible Coin Mechanisms should be installed and the Protocol has to be selected from the Menu. If by mistake a different protocol (other than MDB) is selected from the Menu, the Midi Buffet does not accept any money and returns all.**

This menu is used to change the standard settings of the payment system.

```
┌─────────────────────────────────────┐
│            VALIDATORS          ╱╲    │
│  SERIAL PROTOCOL               │ │   │
│  MDB SETTINGS                  │ │   │
│  EXECUTIVE SETTINGS            │ │   │
│  CCTALK SETTINGS               │ │   │
│  İmpMDB SETTINGS               │ │   │
│  PARALLEL SETTINGS             ╲╱    │
└─────────────────────────────────────┘
```
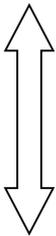
4.2.1.1.1 Serial Protocol

This menu is used for selecting the Payment System in use.
Use UP (8) and DOWN (0) Scroll Keys to (√) SELECT.

```
┌─────────────────────────────────────┐
│         SERIAL PROTOCOL        ╱╲    │
│  MDB                           │ │   │
│  EXECUTIVE                     │ │   │
│  CCTALK                        │ │   │
│  MDB                           │ │   │
│  PARALLEL                      ╲╱    │
└─────────────────────────────────────┘
```

4.2.1.1.2 MDB Settings

This menu is for MDB Payment System Settings.

```
┌─────────────────────────────────────┐
│            MDB SETTINGS              │
│  MAX. WAIT              60sn         │
│  MAX CHANGE             5.00         │
│  ERASE CREDIT                        │
│  FREE VEND                           │
│  CHANGE BACK                         │
│  MANUAL DISPENSE                     │
└─────────────────────────────────────┘
```

Maximum Waiting: Waiting Period after money insertion. After threshold period the Value on the GLCD will reset to Zero and money will be collected inside the Vending Machine.

Maximum Change: This menu is to set the Maximum Change Value.

Erase Credit: This parameter is used to define whether to reset the Credit Value after a Certain Waiting Period upon money insertion or not. Full bracket (X)   means this feature is active.

Free Vend: This feature enables free distribution of products with prices set to '0'. Full bracket (X) means this feature is active.

Change Back: This parameter is used for activating or deactivating the Change Function. Full bracket (X) means this feature is active.

Manual Dispense: This parameter is used to activate or deactivate Manual Dispensing of the Coins in the tubes using the buttons on the Change Giver unit. Full bracket (X) means this feature is active.

Free Change: This parameter is used to activate or deactivate the Change Function without purchasing any product from the Vending Machine. Full bracket (X) means this feature is active.

Automatic Change: This feature enables automatic Change without the need to press Coin Return Push Button. Full bracket (X) means this feature is active.

Coin XX: This parameter is to set the acceptance status of the nr. XX Coin. Full bracket (X) means this feature is active.

Bill XX: This parameter is to set the acceptance status of the nr. XX Bill. Full bracket (X) means this feature is active.

4.2.1.1.3 EXECUTIVE Settings
This menu is for EXECUTIVE Payment System Settings.

Price Holding: This parameter displays the Status of Price Holding function. Full bracket (X) means this feature is active.

Free Vend: This feature enables free distribution of products with prices set to '0'. Full bracket (X) means this feature is active.

Product (XX): When in Price Holding operation mode these values become active. This is to mention that Nr. XX product belongs to Nr. XX Value in sequence.

4.2.1.1.4 CCTALK Settings (Optional)
This menu is for CCTALK payment system settings.

4.2.1.1.5 ImpMDB Settings (Optional)
This menu is for impMDB payment system settings.

4.2.1.1.6 PARALLEL Settings (Optional)
This menu is for PARALLEL payment system settings.

4.2.1.2 IR Product Sensor
This menu is to activate or deactivate the IR Product Sensor. IR Product Sensor will control if the product is delivered to the customer or not.

```
                    SETTINGS
VALIDA   IRSENSOR STATUS
IR SEN:      ON    OFF
COOLIN
DATE-TIME
LANGUAGE SETTING
CHANGE PASSWORD
```

WARNING: If the IR Sensor is deactivated, the vending machine will not be able to check product delivery conditions and the presence or lack of products in the machine trays.

If the IR product sensor determines that a product is not delivered, the related selection (Spiral) is deactivated and customer credit remains active on Graphic LCD for another vend.

If there has not been a product dispense upon 5 vends in a row, the IR product sensor turns off itself. The Vending Machine operates without IR product sensor. It can be re-activated from the menu again.

4.2.1.3 Cooling Unit (Optional)
This menu is for Cooling Unit Settings. Using the menu you may activate and/or deactivate the Cooling System, proceed to temperature settings and the Economy-Mode Operation Settings for certain periods.

```
                COOLING UNIT
UNIT          : OFF
SET           : 8ºC
ECO-MOD       : OFF
SET           : 15ºC
ECO-TIME      : 00:00 – 00:00
```
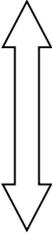
4.2.1.4 Date-Time Settings
This menu is to set Time and Date. Press (√) SELECT the Part to enter Value Highlights. The values can be entered in sequence. Wrong entries are not accepted. Weekday is automatic as per Date Settings.

```
                DATE - TIME
13:44
2010.09.06
MONDAY
```

4.2.1.5 Language Selection
This menu is for Language Selection. Desired Language should be highlighted and (√) SELECT.
Languages other than Turkish and English are Optional.

```
             LANGUAGE SETTING
TURKISH
ENGLISH
GERMAN
SPANISH
```

4.2.1.6 Change Password
Move onto the Password you want to change using UP and DOWN arrow Keys and press (√) SELECT. First, you need to enter the old password. If the old password is correct then you may proceed next and enter the New Password. For approval you need to re-enter the New Password.

```
             CHANGE PASSWORD
ADMIN PASSWORD
USER PASSWORD
ALARM PASSWORD
```

Admin Password: This password enables Access to all settings of the Midi-Buffet. Default administrative password is " 8888 ".

User Password: This level password entry enables Access to menus which are authorized by the administrator. Default User Password is **" 0000 "** and cannot be the same with the Admin Password. Please check Chapter 4.2.1.8 Authorization.

Alarm Password: This password has to be entered prior to opening the door of the Midi-Buffet. When opened without entering password, the Midi-Buffet will give a 120db audio alarm. The alarm is being activated automatically after 10 seconds the front door has been closed. Default alarm password is **" 1234 ".**

4.2.1.7 Illumination Power
This menu is for adjusting the Power of LED Illumination of the Low-E Glass Front. Adjustment can be made using UP (8) and DOWN (0) Buttons.

4.2.1.8 Authorization
This menu is set the Access limitations of the User Password by the administrator.
Full bracket (X) means this feature is active.

4.2.2 Statistics Main Menu

4.2.2.1 Sale Counter
This menu displays the total number of products sold after last reset.
Each and every Product Selection can be chosen and Reset to Zero.

```
          SALE COUNTER
PROD. (01):            0 pcs.
PROD. (02):            1 pcs.
PROD. (03):            9 pcs.
PROD. (04):            3 pcs.
PROD. (05):            4 pcs.
PROD. (06):            5 pcs.
```

4.2.2.2 Cash Counter
This menu displays the total amount of cash in defined currency.

Total VM Revenue: Displays the Total Cash collected by the VM. This Value cannot be reset.

Net Revenue: This is the Net Amount collected by the VM. This value can be reset.

```
         CASH COUNTER
TOTAL VM REVENUE
         158,25   EUR
NET REVENUE
GROSS REVENUE
DISCOUNT SALES
TOTAL DISCOUNTS
```

Gross Revenue: This value is for the total amount of sales excluding discount amount of Discount Sales. This value can be reset.

Discount Sales: This value displays the total revenue generated whilst discount period. This value can be reset.

Total Discounts: This value displays the total discounts applied. This value can be reset.

Overpaid: This value is to display remaining (overpaid) credit reset in the machine. This value can be reset.

Normal Sales: This value displays the sales amount without any discounts applied. This value can be reset.

Cash Box Total: This value displays the total amount of money collected in the cash box. VM equipped with Change Giver first collects the coins into its tubes then fills up the Cash Box. This value can be reset.

4.2.2.3 Errors
Pre-defined Error Codes are as mentioned hereunder;

```
                    ERRORS
ERROR (01):           052-11
06.09.10           12:10   (3)
ERROR (02):           068-02
ERROR (03):           000-00
ERROR (04):           000-00
ERROR (05):           000-00
```
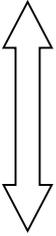
#	Change Giver Error Codes		#	Other Error Codes
3	No Credit1		51	Extreme Current on Motor
4	Defective Tube Sensor1		52	Motor Error 1
5	Double Arrival1		53	Motor Error 2
6	Acceptor Unplugged2		54	Heat Sensor Error
7	Tube Jam1		56	Eeprom Error
8	ROM checksum error1		58	Flash Error
9	Coin Routing Error1		60	Keypad Error
12	Coin Jam1		62	RTC Error
13	Possible Credited Coin Removal1		64	IR Error 1
			65	IR Error 2
#	Bill Validator Errors		66	IR Error 3
21	Defective Motor3		67	IR Error 4
22	Sensor Problem3		68	MDB Communication Error
24	ROM Checksum Error3		70	WDT Reset Error
25	Validator Jammed3		72	Brownout Reset Error
27	Bill Removed1		74	Address Error
28	Cash Box out of position3			
30	Invalid Escrow request1			
32	Possible Credited Bill Removal1			

4.2.2.4 Reset
This menu is used for resetting whole values kept in the Statistics Menu. Press (√) SELECT and confirm the application.

4.2.2.5 Reporting (Optional)
This menu is to report Values in the Statistics Menu.

```
                RESET
SALE COUNTER
CASH COUNTER
```

4.2.3 Prices Main Menu

PRICES	
PROD. (01):	0,50 EUR
PROD. (02):	1,50 EUR
PROD. (02):	0,25 EUR
PROD. (03):	0,00 EUR
PROD. (04):	0,50 EUR
PROD. (05):	0,50 EUR

4.2.3.1 Price Settings
This menu is to set prices. Move onto the Product Number
you wish to set prices and press (√) SELECT to enter new price.

4.2.3.2 Discount (Optional)
It is possible from the price settings to set timetable discount pricing for certain periods and
to adjust discount ratio.

4.2.4 Machine Test Main Menu

4.2.4.1 Motor Control
You may test the Motors of the Midi Buffet through this
menu.
For example; to test the second motor of the first tray,
you need to enter '1', '2' values. The selected motor will
turn a complete tour as if to dispense a single product.
You may also see whether the motors are connected and
Motor Currents as well.

MOTOR CONTROL
Choose Motor…12
Motor OK
Motor Current: 114ma

4.2.4.2 IR Control
This menu is to test the IR Product Sensor operation.
When in this menu, an object will be moved throughout
the passage of the IR Sensor (Compartment) there should
be an audio-visual indication and also the number of
events can be seen on Graphic LCD.

IR CONTROL

4
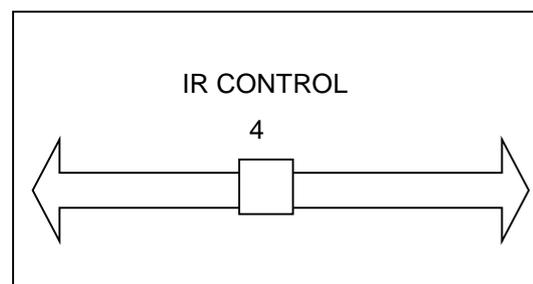
4.2.4.3 Motor Status
This menu is used for checking whether the motors are
connected to the Vending Machine or not. Motors marked with "X" on the list are connected.

4.2.4.4. Payment Systems
This menu displays the Payment Systems information connected to MDB serial interface. If
there is no connected Payment System available this information can also be seen.

4.2.4.5 Touch board Keypad (Optional)
This menu is for Keypad Controls.

4.2.4.6 Relay Control
This menu is for checking the Relay Controls of the Cooling Unit. Relay controls are as follows;
1st Relay can be opened using Nr. 1 Key and Closed Using Nr. 4 Key,
2nd Relay can be opened using Nr. 2 Key and Closed Using Nr. 5 Key,
3rd Relay (Optional) can be opened using Nr. 3 Key and Closed Using Nr. 6 Key

4.2.5 Accessories Main Menu

4.2.5.1 Alarm
This menu is used for activating or deactivating the Alarm against Unauthorized Access (Without Password Entry) to Door Opening. (Please check Chapter 3. VENDING SAFETY)

4.2.5.3 GSM/GPRS (optional)
This menu is for GSM/GPRS module settings.

4.2.5.4 Impact Sensor

This menu is used for activating or deactivating the Impact Sensor against Vandalism as an increased safety precaution.

5. TECHNICAL FEATURES and ENERGY EFFICIENCY

Electric (With Cooling)   : 220 VAC ±%10 50 Hz

Electric (Without Cooling)   : 90-260 VAC 50-60 Hz
(Norm Earthed Mains Supply is necessary)

Power Consumption (With Cooling)   : 100 W
Power Consumption (Without Cooling) :   20 W

Dimensions: Height   125   cm
             Width   82   cm
             Depth   22   cm

Maximum Non-Condensed Humidity   : %90
      Operation Temperature   : 0 +70℃
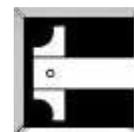
For Energy Efficiency please keep unused parts of your machine closed. Before adjusting temperature levels of the Midi-Buffet with Cooling Unit, please consider the requirements. Extreme cooling should not be used unnecessarily.

6. TRANSPORTATION AND INSTALLATIONS

The Vending Machine has to be protected from all means of physical damages and has to be in Vertical Position during transportation process. If for any reason there will be a change in the upright position of the Vending Machine, all necessary precautions have to be taken and utmost attention hast to be given to Low-E Glass Front, Product Trays and the Cooling Unit.
Please read the User's Manual Carefully before installation.
The Midi-Buffet is being delivered in it's box and ready to operate. The Midi-Buffet can either be used on its base wall mounted. (There are 4 Fixing Screws on Corners in the base and Midi Buffet)
After removal of packing materials the Vending Machine has to be checked if any damages have occurred during transportation. These checks can be the overall look for any physical damages, whether trays are in their positions or not, the control panel is closed or not etc. (Chapter 2 Main Units).

The Power Cable for Mains Connection is supplied with the Midi-Buffet. Vending Machine has to be connected to Mains to start operation.

Before proceeding with Product Loading and Price Settings it is suggested that the main functions should be controlled from the Machine Test Menu (Chapter 4.2.4).

⚠️ **Only operate the Vending Machine on Norm Earthed Mains Supply.**

⚠️ **Vending Machines with Cooling Unit;**
There must be min. 10 cm space between the back side of the Vending Machine and the walls.The Vending machine must not be operated for 30 minutes after transportation. If the Upright (Vertical) Position of the Vending Machine will not be kept during transportation, the waiting period before use should not be less than 3 hours. The VM must not operate under direct sunlight.

7. OPERATION OF MIDI BUFFET

Necessary controls and settings the users should proceed regarding the operation of the Midi-Buffet are described under Product Loading (Chapter 2.1), Pricing (Chapter 4.2.3) and Machine Tests (Chapter 4.2.4).

Instructions for the Customers who will purchase from the Midi Buffet are as follows;

'INSTRUCTIONS FOR USE';

1- Enter "Product Code" to see the Price of the Selection
2- Insert enough Money to buy the selected product.
3- Enter the "Products Code" of the product you would like to purchase.
4- Pick up the product from the Compartment.
5- Press the Coin Return Push Button.

8. MAINTENANCE and REPAIR

Midi-Buffet is designed to operate 7/24 basis. The Midi-Buffet can be operated only after proceeding necessary steps described in the User's Manual.

Do not use water directly to clean the Machine. Use dry or damp cloth for cleaning. Electronic units should be protected from water.

There is no periodical maintenance need. However, during product loading and cash collection, the Vending Machine will be opened often and may result in "Errors" which can be checked from the menu and necessary corrections have to be made as soon as possible.

Unauthorized staff must not maintain the equipment. Whilst in maintenance, proceed as per "Service Manual" instructions.

9. OPTIONAL UNITS

9.1 Cooling Unit
The Midi Buffet has an Optional Modular Cooling unit for vending. It has a cooling capacity of 100 W Cooling Power. The modular Cooling Units and thermostat controlled economy mode operation are superiorities.

The Cooling Unit has a complete modular design enabling ease of assembly and maintenance. The Modular Cooling Unit can be equipped to a Standard Midi-Buffet at a later time as an optional unit.

9.2 Additional Tray
The Midi Buffet has 10 Standard Trays with the possibility to add 1 Optional Tray.
Special design and adjustments can be done as per the buyer's requests to vend different packing size/shape products requiring different storage conditions other than the standard configuration.

9.3 GSM/GPRS Web Based Remote PC Access & Control Feature
The offered optional GSM/GPRS module provides remote access to all Vending Machine statistical data and fill up / storage condition of the Vending Machine. The operators can precede Discount Menu Settings via Remote Access.

10 TROUBLESHOOTING

10.1 Warnings
Midi-Buffet must be taken into operation only after all necessary precautions and instructions in this User's Manual are fulfilled. Misusage of the Vending Machine may cause malfunctions and/or harm to the environment and humans.

Never operate your Vending Machine if there is no Norm Earthed Mains Supply.
Do operate the Midi-Buffet fixed in Vertical Position.
Periodically Check the Operation of the Midi-Buffet.

10.2 Frequently Asked Questions

In this section you may find information about Frequently Asked Questions regarding Installation and the use of your vending machine.

10.2.1 General Questions:

- **There is no Earth / Grounding on Mains Supply. What should I do?**
Do not operate your Vending Machine without earthed electric supply. Such operation without earthed supply is risky and has serious inconvenience in respects of reliable operation and security.

- **When there is a problem regarding the vending machine, can I directly interfere or should I get in contact with a technician?**
If the problem is not solved after trying all procedures given in the User's Manuel, you may contact our technical service. Any maintenance job done by third parties will void the Vending Machine Warranty Terms.

- **How many hours a day can the Vending Machine operate?**
Your Vending Machine is designed to operate 24 hours/day year round basis.

- **How can I clean the Machine?**
Do not use water directly to clean the Machine. Use dry or damp cloth for cleaning.

10.2.2 Operational Questions:

- **Does long time non-operational storage require settings and maintenance?**

Proper Storage Conditions does not require any additional settings and/or maintenance before use.

- **One of the motors is not operating, what can I do?**

First of all control the PINs inside the Motor Socket. Then check the 24 PIN Sockets and Cables in Connectors connecting to the Electronic Board.

WARNING: Please do not force the sockets and PINs. The sockets are easy to connect and disconnect.

- **I forgot my Password, what can I do?**

Please get in contact with our Technical Service Department with the Warranty Card.

- **Cooling Unit is not operating, what should I do?**

Cooling Unit might have been deactivated from the Menu. Please check

Article Nr. 4.2.1.3.

Front door can be Open. There should not be "Door Open" warning on Screen.

All Three LEDs on the Power Distribution Board Electronic Module (Article Nr. 2) must be lit.

11 SERVICE CENTRE and CERTIFICATE OF WARRANTY

<u>SERVICE STATION</u>:
ELEKTRAL ELEKTROMEKANIK SAN. VE. TIC. A.S.
IZMIR ATATURK INDUSTRIAL ZONE
M.K. ATATURK BLV. 23 CIGLI
35620, IZMIR/TURKEY
Tel:+90 (232) 376 7300   Fax: +90 (232) 376 7030
e.mail: elektral@elektral.com.tr

FULL WARRANTY CERTIFICATE

Your Unit, Model   :..

Serial/Model No   :.................................

Which you purchased on __/__20__ is hereby warranted against defect in workmanship

and material for a period as follows: 1 YEAR

1. **Within the Warranty period, ELEKTRAL will repair or replace, without charge, any part or parts that prove to be defective. The defective instruments should be returned, accompanied by the attached SERVICE OR REPAIR CARD to ELEKTRAL Izmir Ataturk Industrial Zone M.K. Ataturk Blv. 23 Cigli 35620 Izmir-Turkey where the overhaul is performed also.**
2. **Upon expiration of the Warranty, ELEKTRAL A.S. further guarantees to repair this merchandise at a cost of the current listed ELEKTRAL price.**
3. **This warranty is void if**
   - **the instrument has been damaged or broken down through misuse**
   - **instrument has been altered or tampered with in any way**
   - **instrument has been damaged through accident, misuse or negligence**
   - **the seal, ties or stickers on the instrument has been broken**
   - **damage or defects occur because of through lightning and fire**
   - **replacement or repair is necessitated be loss or damage resulting from any cause beyond the control of ELEKTRAL**
   - **the instrument has been used against the instructions stated in the user's manual**
   - **your warranty has not been among our files by your request with "Warranty Information Card"**
   - **only ELEKTRAL A.S. is authorized to confirm above mentioned particulars.**
   - **all price and costs are EXW Izmir-TR. All the transport or travel costs to be borne by the buyer.**
4. **ELEKTRAL is not to be labeled for loss of other damage allegedly resulting from defects in its products.**
5. **This Warranty gives you specific legal rights. Please Include Model Number and purchase date in correspondence regarding this instrument.**

All Warranty Services are at our Factory. All transportation risks and costs to and pro our Factory belongs to Customer.

Thank you for selecting a product manufactured by ELEKTRAL A.S. Before using your new item please take a minute to read and fill out the forms on the reverse side of this card.

The Warranty Information Card helps us learn more about you and what you purchase. From this information come improvements and new products for you, our valued customers. Please return this card within 10 days of purchase.

The full Warranty Certificate tells you that we stand behind our products and will repair this item as long as you own the product, per the terms of the warranty certificate.

The Service or repair card is your way of communicating with our Customer Service Department should a problem occur. It helps us to quickly service your product and return it as soon as possible. Please complete and include this card whenever you return a product again.

Thank you once again for selecting our product. We hope this will be one of the many ELEKTRAL products you will own.

Date/Place Purchased   :.................................
Invoice Date, No   :.................................
Dealer Company's Title   :.................................
Address :...
...
Telephone-Fax   :.................................
E-mail   :.................................
DEALER COMPANY   :.................................   **Seal & Signature**

ELEKTRAL®

12 ENCLOSURES

12.1 Menu Tree

```
                                    ┌─────────┐
                                    │  Menus  │
                                    └─────────┘
        ┌──────────┬───────────┬──────────┼──────────────┬──────────────┬──────────┐
        ▼          ▼           ▼          ▼              ▼              ▼
  ┌──────────┐ ┌──────────┐ ┌──────────┐ ┌──────────────┐ ┌──────────────┐ ┌──────────┐
  │ Settings │ │Statistics│ │  Prices  │ │ Machine Test │ │ Accessories  │ │  Device  │
  └──────────┘ └──────────┘ └──────────┘ └──────────────┘ └──────────────┘ │   Info   │
        │          │           │          │              │              └──────────┘
        ▼          ▼           ▼          ▼              ▼
```

Settings	Statistics	Prices	Machine Test	Accessories
Validators	Sale Counter	Price Settings	Motor Control	Alarm
IR Sensor	Cash Counter	Exchange of Rate	IR Control	Bill
Cooling Unit	Errors	Discount	Motor Status	GSM / GPRS
Date-Time	Reset		Payment System	Tilt Sensor
Language Settings	Get Report		Touchpad	
Change Password			Relay Control	
Illumination			Others	
Authorization				
Default Settings				