Aclas Scale OLE-driver

Programming guide

Windows 98/ME/NT/2000/XP/2003/Vista

Moscow
2011

Current guide describes the Software product "Aclas scale OLE-driver" developed by Scat Electronics.

It is presumed here that reader is adequately acquainted with one ore few programming languages for *the following operation systems::*
Windows 2000/XP/2003/Vista.

LICENSE TO PROPAGATE SOFTWARE AND DOCUMENTATION BELONG TO "SCAT ELECTRONICS".

All questions and comments please refer to:
E-SUPPORT@ACLAS.RU

Rev. 20.05.2011

Contents

1. <u>General</u> <u>information</u> <u>and</u> <u>installation</u>

Driver itself is a dynamic link library (DLL) that embodies Aclas scale communication interface. Library is based on the scale communication protocol and is in fact its higher level realization.

Driver is either provided on the CD disk or downloaded from ETIM FTP server. In order to install it on your computer please run the «MControlSrvSetup.x.x.x.x.exe» (where x.x.x.x – SW version number) and follow screen instructions.

When installation is over in the program catalog on the disk you will find following files:

- **Driver folder**
  - **AclasDriver.dll**   – OLE-driver;
  - **AclasDrv.lic**   – Program license file;
  - ***xxxxxxx*.lic**   – Scale license file (xxxxxxxx – Scale serial number), this file might be absent in the program distributive;
- **MControl.exe**   – Scale management application;
- **AclasService.exe**   – Scale load server (SLS);
- **Settings folder**   – Default label formats and fonts;
  - **Lab.exe**   – Label format editor application;
- **Doc folder**   – Documentation;
- **Sample folder**   - OLE-driver use examples.

When driver is installed it is ready to be used in your products.

During the installation process driver is automatically registered in the Windows registry. In case you need it you can re register it manually. In order to do it, open the command prompt («Start» menu… «Run»), type in "regsvr32 <driver file path>AclasDriver.dll" and press «Enter».

Server Automation linking is done differently in different programming environment. In order to use it you need to create an object **AClasDriver.AClasOLEDriver**.

Driver does not secure neither does it track the access to its methods and properties from more than one thread or application. Access control in multithreaded applications or when running more than one application has to be provided by the client.

2. <u>Driver</u> <u>operation</u> <u>order</u>

In order to work with driver from programming environment you need to create
"AclasDriver.AclasOLEDriver" object first. Depending on exact programming language/environment it is done
in different ways. For example: in Visual Basic environment it could be done this way:

      Dim V As Object
      Set V = CreateObject («AclasDriver.AclasOLEDriver»)

After that through V object all methods and properties of driver would be available.

All data for driver methods are transmitted through its properties. This means that driver gets all the data it
needs for operation from the corresponding properties that were previously set by user. And when the method is
used corresponding properties are filled with results received from the scale.

Prior to any actions with a scale IP address of the scale should be set in the driver. When working with one
scale it is done ones before using any of the methods communicating to the scale. In order to address another
scale you need to change specified IP address accordingly.

Prior to any actions (e.g. data transfer to the scale) corresponding data should be recorded to the computer
memory buffer through the driver methods and properties. Then driver methods are used to transfer these data
to the scale. Messages, PLUs, and other buffers are separate and independent from one another. You can first
load them all and then transfer them all to the scale.

Example. How to program 2 lines in the message #1.:

Dim V As Object	' Variable declaration
Set V = CreateObject («AclasDriver.AclasOLEDriver»)	' Driver object creation
V.IPAddress = «192.168.0.249"	' Scale IP address setting
V. ClearAllPLUAndLabelTexts	' Cleaning all the PLU base and messages
V. InitBufferLabelTexts	' Message buffer initialization
V. LabelText_CurrentNo= 1	' Set current message to be 1 message of the buffer
V. LabelText_Message1= «Aclas scale!»	' Set 1 line of the message
V. LabelText_Message2= «At your service!»	' Set 2 line of the message
V. LabelText_CurrentNo= 2	'Set current message to be 2 message of the buffer
V. LabelText_Message1= «Line 1!»	' Set 1 line of the message
V. LabelText_Message2= «Line 2!»	' Set 2 line of the message
V. SetAllLabelTexts	' Buffer transfer to the scale
If V.LastError <> 0	
; operations in case data transmission error	

3. Driver methods

In all the methods communicating to the scale following properties are used:

IPAddress   - Scale IP address, to work with. You need to set this property before the first call to the scale communication method. This property can be read and written.

TestLinkOk   - Last scale connection test result. Property has a true value – if test was successful and connection was established. If there happened a mistake during a scale connection test this property would have a false value. This property can only be read.

LastCmdOk   - Last scale command execution status. Property has a true value – if command was completed successfully. If there happened a mistake during command execution (or command result is missing) this property would have a false value. This property can only be read.

LastError   - Last operation error code. Property value of 0 (zero), means that last operation was completed successfully without errors. List of all possible error codes is provided in chapter 6. This property can only be read.

LastErrorMessage   - Last operation error code text description. This property can only be read.

Methods with names starting with **«Set»** prefix transmit data **to the scale from PC**.

Methods with names starting with **«Get»** prefix transmit data **from the scale to PC**

Methods with names starting with «Init» prefix clear or reset PC buffer data and do not affect to the scale.

ATTENTION! Starting with driver version 0.0.9.0 message operation properties and methods names are changed. As well as multiline messages operation algorithm is changed. Message has now only to lines, first line is in fact multiline (line brake – HEX 0x0a and 0x0d), second line is a single line.

Example:

"Sub-line 1 \r\n Sub-line 2" - record in C (C++) format

"Sub-line 1" & Chr(10) & Chr(13) & "Sub-line 2" - record in VB format

All old line operation parameters and methods available still as well!

GetScaleVersion ();

Receiving scale identification info.

Properties used:

Name	Type	Limits	Read/Write	Description
IPAddress	string		RW	Scale IP-address.

Properties changed:

Name	Type	Limits	Read/Write	Description
LastCmdOk	bool		R	Scale command execution result.
LastError	long		R	Last operation error code.
LastErrorMessage	string		R	Last operation error code text description.
ScaleVersion	string		R	Scale identity info.
SerialNumber	bool		R	Scale serial number.
MaxMessages	long		R	Maximum posible number of messages.

DisplayType	long		R	Scale display type.

TestLink ();

Scale communication test.

Properties used:

Name	Type	Limits	Read/Write	Description
IPAddress	string		RW	Scale IP-address.

Properties changed:

Name	Type	Limits	Read/Write	Description
LastCmdOk	bool		R	Scale command execution result.
LastError	long		R	Last operation error code.
LastErrorMessage	string		R	Last operation error code text description.
ScaleVersion	string		R	Scale identity info.
SerialNumber	bool		R	Scale serial number.
MaxMessages	long		R	Maximum posible number of messages.
DisplayType	long		R	Scale display type.

GetScaleSerialNumber ();

Receiving a scale IP address and serial number..

Properties used:

Name	Type	Limits	Read/Write	Description
IPAddress	string		RW	Scale IP-address.

Properties changed:

Name	Type	Limits	Read/Write	Description
LastCmdOk	bool		R	Scale command execution result.
LastError	long		R	Last operation error code.
LastErrorMessage	string		R	Last operation error code text description.
ScaleVersion	string		R	Scale identity info.
SerialNumber	bool		R	Scale serial number.
MaxMessages	long		R	Maximum posible number of messages.
DisplayType	long		R	Scale display type.

SetScaleIPAddress (string AIPAddress);

Setting new IP address. As a method parameter (AIPAddress) new Scale IP-address is used.

Properties used:

Name	Type	Limits	Read/Write	Description
IPAddress	string		RW	Scale IP-address.

Properties changed:

Name	Type	Limits	Read/Write	Description
LastCmdOk	bool		R	Scale command execution result.
LastError	long		R	Last operation error code.
LastErrorMessage	string		R	Last operation error code text description.
ScaleVersion	string		R	Scale identity info.
SerialNumber	bool		R	Scale serial number.
MaxMessages	long		R	Maximum posible number of messages.
DisplayType	long		R	Scale display type.

UpdateFirmware (string AFileName);

Scale FW update. Method parameter is a FW update script file. To get this FW update script file please address ETIM.
Nota Bene: After updating a firmware it is required that you execute the scale memory reset command "FullResetScale".

Properties used:

Name	Type	Limits	Read/Write	Description
IPAddress	string		RW	Scale IP-address.

Properties changed:

Name	Type	Limits	Read/Write	Description
LastCmdOk	bool		R	Scale command execution result.
LastError	long		R	Last operation error code.
LastErrorMessage	string		R	Last operation error code text description.
ScaleVersion	string		R	Scale identity info.
SerialNumber	bool		R	Scale serial number.
MaxMessages	long		R	Maximum posible number of messages.
DisplayType	long		R	Scale display type.

ClearAllPLUAndLabelTexts ();

Total scale PLU data base and message list clearing. This command does not affect PC memory buffer PLUs and messages. It is recommended to use this command prior to total PLU base and messages list transfer to the scale.

Properties used:

Name	Type	Limits	Read/Write	Description
IPAddress	string		RW	Scale IP-address.

Properties changed:

Name	Type	Limits	Read/Write	Description
LastCmdOk	bool		R	Scale command execution result.
LastError	long		R	Last operation error code.
LastErrorMessage	string		R	Last operation error code text description.

ScaleVersion	string		R	Scale identity info.
SerialNumber	bool		R	Scale serial number.
MaxMessages	long		R	Maximum posible number of messages.
DisplayType	long		R	Scale display type.

Operations with messages

General way of sending messages to the scale:
Step 1: InitBufferLabelTexts() method call,
Step 2: Set LabelText_CurrentNo property to be current message number and fill LabelText_Message1 and LabelText_Message2 with proper data
Step 3: Set AllLabelTexts () method call, it will transfer all the data to the scale.

General way of receiving messages from the scale:
Step1: Get AllLabelTexts ( ) method call, it will receive all the data from the scale.
Step 2: Set LabelText_CurrentNo to be the number of the message required and read LabelText_Message1 and LabelText_Message2 properties to receive sought-for data.

LabelText_Message1 can contain a number of lines divided with line breakers. ("\r\n" symbols with codes 0x0a and 0x0d). When counting number of characters in the line, line breakers don't count.
LabelText_Message2 can contain single line only.
Either or both lines can be used.

InitBufferLabelTexts ();

Cleaning PC memory messages buffer. This method is recommended to be used prior writing Messages to the PC memory message buffer.

SetAllLabelTexts ();

Transfer all the messages from the PC memory messages buffer to the scale. Messages should be recorder o the buffer before this operation. This operation is used after cleaning all PLUs and messages data from the scale. If you need to update certain data instead of replacing all the data use UpdateAllLabelTexts () method.

Properties used:

Name	Type	Limits	Read/Write	Description
IPAddress	string		RW	Scale IP-address.

Properties changed:

Name	Type	Limits	Read/Write	Description
LastCmdOk	bool		R	Scale command execution result.
LastError	long		R	Last operation error code.
LastErrorMessage	string		R	Last operation error code text description.
ScaleVersion	string		R	Scale identity info.
SerialNumber	bool		R	Scale serial number.
MaxMessages	long		R	Maximum posible number of messages.
DisplayType	long		R	Scale display type.

UpdateAllLabelTexts ();

Update certain messages in the scale memory with the data from the PC memory messages buffer. Messages should be recorder o the buffer before this operation. This operation can be used both if messages were previously recorder to the scale memory with SetAllLabelTexts () methods and if there were no messages previously recorder. Thus if you like so, can only use this method and forget SetAllLabelTexts () method.

Properties used:

Name	Type	Limits	Read/Write	Description
IPAddress	string		RW	Scale IP-address.

Properties changed:

Name	Type	Limits	Read/Write	Description
LastCmdOk	bool		R	Scale command execution result.
LastError	long		R	Last operation error code.
LastErrorMessage	string		R	Last operation error code text description.
ScaleVersion	string		R	Scale identity info.
SerialNumber	bool		R	Scale serial number.
MaxMessages	long		R	Maximum posible number of messages.
DisplayType	long		R	Scale display type.

GetAllLabelTexts ();

Get all the messages from the scale memory to the PC memory.

Properties used:

Name	Type	Limits	Read/Write	Description
IPAddress	string		RW	Scale IP-address.

Properties changed:

Name	Type	Limits	Read/Write	Description
LastCmdOk	bool		R	Scale command execution result.
LastError	long		R	Last operation error code.
LastErrorMessage	string		R	Last operation error code text description.
ScaleVersion	string		R	Scale identity info.
SerialNumber	bool		R	Scale serial number.
MaxMessages	long		R	Maximum posible number of messages.
DisplayType	long		R	Scale display type.

InitRebateSchedules ();

Reset time-bound discounts in the PC memory in to 0 (zero) values.

SetRebateSchedules ();

Transfer time-bound discount values from the PC memory to the scale. Primarily this discount values should be set with SetRebateScheduleRebate (), SetRebateScheduleMin () and SetRebateScheduleHour () methods.

Properties used:

Name	Type	Limits	Read/Write	Description
IPAddress	string		RW	Scale IP-address.

Properties changed:

Name	Type	Limits	Read/Write	Description
LastCmdOk	bool		R	Scale command execution result.
LastError	long		R	Last operation error code.
LastErrorMessage	string		R	Last operation error code text description.
ScaleVersion	string		R	Scale identity info.
SerialNumber	bool		R	Scale serial number.
MaxMessages	long		R	Maximum posible number of messages.
DisplayType	long		R	Scale display type.

GetRebateSchedules ();

Receive time-bound discount values from the scale to PC memory. After this method call sought-for values can be read with GetRebateScheduleRebate (), GetRebateScheduleMin () and GetRebateScheduleHour () methods.

Properties used:

Name	Type	Limits	Read/Write	Description
IPAddress	string		RW	Scale IP-address.

Properties changed:

Name	Type	Limits	Read/Write	Description
LastCmdOk	bool		R	Scale command execution result.
LastError	long		R	Last operation error code.
LastErrorMessage	string		R	Last operation error code text description.
ScaleVersion	string		R	Scale identity info.
SerialNumber	bool		R	Scale serial number.
MaxMessages	long		R	Maximum posible number of messages.
DisplayType	long		R	Scale display type.

SetRebateScheduleRebate (long AMode, long ASection, long ARebate);

SetRebateScheduleMin (long AMode, long ASection, long AMin);

SetRebateScheduleHour (long AMode, long ASection, long AHour);

Changing time-bound discount values in the PC memory. Method parameters are mode number(AMode), Section number (ASection) and discount sole value (ARebate, AMin or AHour).

long GetRebateScheduleRebate (long AMode, long ASection);

long GetRebateScheduleMin (long AMode, long ASection);

long GetRebateScheduleHour (long AMode, long ASection);

Receiving time-bound discount values from the PC memory. Method parameters are mode number (AMode) and section number (ASection). Method returns sought-far parameter.

InitBufferPLU ();

PC memory PLU data base buffer reset. PLU counter PLUCount will become 0. Use this method prior to adding PLUs to the PC memory buffer.
General way загрузки товаров в весы такова:
Step 1: InitBufferPLU() method call,
Step 2: AddPLUToBuffer () method call,
Step 3: PLU_xxx properties filled with proper data,
Step 2 and 3 are repeated until all the PLUs under question are sent to the buffer.
Step 4: SetAllPLU () method call, all the data is transmitted to the scale.

Properties changed:

Name	Type	Limits	Read/Write	Description
PLUCount	long	1…20000	R	Number of PLUs in the buffer.
PLU_CurrentNo	long	1…20000	RW	Current PLU in the buffer number.

AddPLUToBuffer ();

Adding a PLU to the PC memory buffer.Each time PLU is created with default values in the required fields. When PLU is created it could be changed trough corresponding property (cproperty with "PLU_" prefix). When PLU is created (PLU_CurrentNo) refers property will reference to the created PLU.

Properties used:

Name	Type	Limits	Read/Write	Description

PLUCount	long	1…20000	R	Number of PLUs in the buffer.
PLU_CurrentNo	long	1…20000	RW	Current PLU in the buffer number.

SetAllPLU ();

Transfer PLU data base from PC memory buffer to the scale.Prior this method call you need to add PLUs to the buffer by using a AddPLUToBuffer () method. This method is used for both writing and updating the PLU data base on the scale.

Properties used:

Name	Type	Limits	Read/Write	Description
IPAddress	string		RW	Scale IP-address.

Properties changed:

Name	Type	Limits	Read/Write	Description
LastCmdOk	bool		R	Scale command execution result.
LastError	long		R	Last operation error code.
LastErrorMessage	string		R	Last operation error code text description.
ScaleVersion	string		R	Scale identity info.
SerialNumber	bool		R	Scale serial number.
MaxMessages	long		R	Maximum posible number of messages.
DisplayType	long		R	Scale display type.

GetAllPLU ();

Receive all the PLU data base from the scale to the PC memory buffer.

Properties used:

Name	Type	Limits	Read/Write	Description
IPAddress	string		RW	Scale IP-address.

Properties changed:

Name	Type	Limits	Read/Write	Description
LastCmdOk	bool		R	Scale command execution result.
LastError	long		R	Last operation error code.
LastErrorMessage	string		R	Last operation error code text description.
ScaleVersion	string		R	Scale identity info.
SerialNumber	bool		R	Scale serial number.
MaxMessages	long		R	Maximum posible number of messages.
DisplayType	long		R	Scale display type.
PLUCount	long	1…20000	R	Number of PLUs in the buffer.

InitBufferSettings ();

Scale settings in the PC memory reset. It is recommended to use current method prior to changing the scale settings. Settings are reset to defaults. Properties relating to settings has "Settings_" prefix.

Properties changed:

Name	Type	Limits	Read/Write	Description
Settings_PaperType	long	0..2		Paper kind (Label or receipt tape): 0 – Labels 1 – receipt (1 type) 2 – receipt (2 type)
Settings_LabelType	long	0…7		Default label format (Used for new PLU): 0 – A0 1 – A1 2 – B0 3 – B1 4 – C0 5 – C1 6 – D0 7 – D1
Settings_BarCodeType	long	0…99	RW	Default Bare-code (Used for new PLU):
Settings_DateFormat	long	0…2	RW	Data format: 0 – Day-Month-Year 1 – Month-Day-Year 2 – Year-Day-Month
Settings_YearFormat	long		RW	Year format: 0 – YY 1 – YYYY
Settings_PackageTolerance	long	1…20	RW	Default scatter range for fixed weight (Used for new PLU)
Settings_DecimalPosition	long	0…3	RW	Decimal divider position
Settings_TotalPricePrecision	long	1…3	RW	Total sum round-off mode: 0 – N.N0 1 – N.NN 2 – N.N
Settings_Rounding	long	1…10	RW	Round-off rule
Settings_Message	long	1…10999	RW	Default message (Used for new PLU)
Settings_18BarCode	long	0…3	RW	18-digits bare-code type
Settings_AccountType	long	0…2	RW	
Settings_PrintBackground	bool		RW	Print background
Settings_PrintWeightUnitOfUnitPrice	bool		RW	Print PLU type in the price
Settings_PrintTime	bool		RW	Print time in shelf life
Settings_PrintDiscountMark	bool		RW	Print price without discount NB: Current scale FW version does not support this
Settings_PrintWeightUnitOfWeight	bool		RW	Print weight text
Settings_UseOriginalPriceOnBarcode	bool		RW	Price in bare-code without discount
Settings_UpdateTimeFromPCOnConnect	bool		RW	Sync time when communicating to PC
Settings_AntiWind	bool		RW	Use mean value for unstable weight
Settings_TotalPriceDiscount	bool		RW	Current scale FW version does not support this.
Settings_RebateTo23Dep	bool		RW	Reg PLU as belonging to 23rd department when using a discount
Settings_NoGapLabel	bool		RW	No gap label tape
Settings_UseExtShelfTime	bool		RW	Use special shelf life mode
Settings_AllowPrintZeroWeight	bool		RW	Allow zero weight print
Settings_PrintSpeed	long	0…7	RW	Currently not used
Settings_PrintDirection	long	0…2	RW	Print direction: 0 – horizontally 1 – vertically 2 –180 degrees turn

			RW	PLU name alignment: 0 – Center
Settings_AlignPLUName	long	0…2		1 – Left 2 – Right
Settings_PrintTestLabel	bool		RW	Print test label when auto-adjusting label position.
Settings_DisplayBrightness	long	0…2	RW	Display brightness (Only for square display)
Settings_LockSystemFunction	bool		RW	Enable password for scale programming mode
Settings_LockAccountFunction	bool		RW	Enable password for scale reports mode
Settings_LockPLUFunction	bool		RW	Enable password for PLU edition from the scale
Settings_LockDiscountFunction	bool		RW	Enable password for manual discounts
Settings_LockPriceFunction	bool		RW	Enable password for manual PLU price changing
Settings_LockTareFunction	bool		RW	Enable password for manual Tare editing
Settings_OnlyPLUKey	bool		RW	Forbid choosing PLU by code
Settings_SystemPassword	string	4 digits	RW	Program mode password
Settings_AccountPassword	string	4 digits	RW	Reports mode password
Settings_PLUPassword	string	4 digits	RW	PLU editing password
Settings_DiscountPassword	string	4 digits	RW	Manual discounts password
Settings_PricePassword	string	4 digits	RW	PLU price changing password
Settings_TarePassword	string	4 digits	RW	Tare edition password
Settings_En_50g	bool		RW	Use this PLU type on the scale
Settings_En_g	bool		RW	Use this PLU type on the scale
Settings_En_10g	bool		RW	Use this PLU type on the scale
Settings_En_100g	bool		RW	Use this PLU type on the scale
Settings_En_Kg	bool		RW	Use this PLU type on the scale
Settings_En_Oz	bool		RW	Use this PLU type on the scale
Settings_En_Lb	bool		RW	Use this PLU type on the scale
Settings_En_500g	bool		RW	Use this PLU type on the scale
Settings_En_600g	bool		RW	Use this PLU type on the scale
Settings_En_PCS_g	bool		RW	Use this PLU type on the scale
Settings_En_PCS_Kg	bool		RW	Use this PLU type on the scale
Settings_En_PCS_Oz	bool		RW	Use this PLU type on the scale
Settings_En_PCS_Lb	bool		RW	Use this PLU type on the scale

SetSettings ();

Transfer settings from the PC memory buffer to the scale You need to change this settings by changing corresponding properties first.

Properties used:

Name	Type	Limits	Read/Write	Description
IPAddress	string		RW	Scale IP-address.
Settings_PaperType	long	0..2		Paper kind (Label or receipt tape): 0 – Labels 1 – receipt (1 type) 2 – receipt (2 type)
Settings_LabelType	long	0…7		Default label format (Used for new PLU):

				0 – A0
				1 – A1
				2 – B0
				3 – B1
				4 – C0
				5 – C1
				6 – D0
				7 – D1
Settings_BarCodeType	long	0…99	RW	Default Bare-code (Used for new PLU):
Settings_DateFormat	long	0…2	RW	Data format: 0 – Day-Month-Year 1 – Month-Day-Year 2 – Year-Day-Month
Settings_YearFormat	long		RW	Year format: 0 – YY 1 – YYYY
Settings_PackageTolerance	long	1…20	RW	Default scatter range for fixed weight (Used for new PLU)
Settings_DecimalPosition	long	0…3	RW	Decimal divider position
Settings_TotalPricePrecision	long	1…3	RW	Total sum round-off mode: 0 – N.N0 1 – N.NN 2 – N.N
Settings_Rounding	long	1…10	RW	Round-off rule
Settings_Message	long	1…10999	RW	Default message (Used for new PLU)
Settings_18BarCode	long	0…3	RW	18-digits bare-code type
Settings_AccountType	long	0…2	RW	
Settings_PrintBackground	bool		RW	Print background
Settings_PrintWeightUnitOfUnitPrice	bool		RW	Print PLU type in the price
Settings_PrintTime	bool		RW	Print time in shelf life
Settings_PrintDiscountMark	bool		RW	Print price without discount NB: Current scale FW version does not support this
Settings_PrintWeightUnitOfWeight	bool		RW	Print weight text
Settings_UseOriginalPriceOnBarcode	bool		RW	Price in bare-code without discount
Settings_UpdateTimeFromPCOnConnect	bool		RW	Sync time when communicating to PC
Settings_AntiWind	bool		RW	Use mean value for unstable weight
Settings_TotalPriceDiscount	bool		RW	Current scale FW version does not support this.
Settings_RebateTo23Dep	bool		RW	Reg PLU as belonging to 23rd department when using a discount
Settings_NoGapLabel	bool		RW	No gap label tape
Settings_UseExtShelfTime	bool		RW	Use special shelf life mode
Settings_AllowPrintZeroWeight	bool		RW	Allow zero weight print
Settings_PrintSpeed	long	0…7	RW	Currently not used
Settings_PrintDirection	long	0…2	RW	Print direction: 0 – horizontally 1 – vertically 2 –180 degrees turn
Settings_AlignPLUName	long	0…2	RW	PLU name alignment: 0 – Center 1 – Left 2 – Right
Settings_PrintTestLabel	bool		RW	Print test label when auto-adjusting label position.
Settings_DisplayBrightness	long	0…2	RW	Display brightness (Only for square display)

				RW	Enable password for scale programming
Settings_LockSystemFunction	bool				mode
Settings_LockAccountFunction	bool			RW	Enable password for scale reports mode
Settings_LockPLUFunction	bool			RW	Enable password for PLU edition from the scale
Settings_LockDiscountFunction	bool			RW	Enable password for manual discounts
Settings_LockPriceFunction	bool			RW	Enable password for manual PLU price changing
Settings_LockTareFunction	bool			RW	Enable password for manual Tare editing
Settings_OnlyPLUKey	bool			RW	Forbid choosing PLU by code
Settings_SystemPassword	string	4 digits		RW	Program mode password
Settings_AccountPassword	string	4 digits		RW	Reports mode password
Settings_PLUPassword	string	4 digits		RW	PLU editing password
Settings_DiscountPassword	string	4 digits		RW	Manual discounts password
Settings_PricePassword	string	4 digits		RW	PLU price changing password
Settings_TarePassword	string	4 digits		RW	Tare edition password
Settings_En_50g	bool			RW	Use this PLU type on the scale
Settings_En_g	bool			RW	Use this PLU type on the scale
Settings_En_10g	bool			RW	Use this PLU type on the scale
Settings_En_100g	bool			RW	Use this PLU type on the scale
Settings_En_Kg	bool			RW	Use this PLU type on the scale
Settings_En_Oz	bool			RW	Use this PLU type on the scale
Settings_En_Lb	bool			RW	Use this PLU type on the scale
Settings_En_500g	bool			RW	Use this PLU type on the scale
Settings_En_600g	bool			RW	Use this PLU type on the scale
Settings_En_PCS_g	bool			RW	Use this PLU type on the scale
Settings_En_PCS_Kg	bool			RW	Use this PLU type on the scale
Settings_En_PCS_Oz	bool			RW	Use this PLU type on the scale
Settings_En_PCS_Lb	bool			RW	Use this PLU type on the scale

Properties changed:

Name	Type	Limits	Read/Write	Description
LastCmdOk	bool		R	Scale command execution result.
LastError	long		R	Last operation error code.
LastErrorMessage	string		R	Last operation error code text description.
ScaleVersion	string		R	Scale identity info.
SerialNumber	bool		R	Scale serial number.
MaxMessages	long		R	Maximum posible number of messages.
DisplayType	long		R	Scale display type.

GetSettings ();

Get settings from the Scale to the PC memory buffer.

Properties used:

Name	Type	Limits	Read/Write	Description
IPAddress	string		RW	Scale IP-address.

Properties changed:

Name	Type	Limits	Read/Write	Description
LastCmdOk	bool		R	Scale command execution result.
LastError	long		R	Last operation error code.
LastErrorMessage	string		R	Last operation error code text description.
ScaleVersion	string		R	Scale identity info.
SerialNumber	bool		R	Scale serial number.
MaxMessages	long		R	Maximum posible number of messages.
DisplayType	long		R	Scale display type.

InitBufferHotKey ();

Clean «Hot» keys table in PC memory buffer.Use this method prior to changing the «Hot» keys table.

SetHotKeys ();

Transfer «Hot» keys table from the PC memory buffer to the scale. Edit «Hot» keys table with SetHotKeyValue method first .

Properties used:

Name	Type	Limits	Read/Write	Description
IPAddress	string		RW	Scale IP-address.

Properties changed:

Name	Type	Limits	Read/Write	Description
LastCmdOk	bool		R	Scale command execution result.
LastError	long		R	Last operation error code.
LastErrorMessage	string		R	Last operation error code text description.
ScaleVersion	string		R	Scale identity info.
SerialNumber	bool		R	Scale serial number.
MaxMessages	long		R	Maximum posible number of messages.
DisplayType	long		R	Scale display type.

GetHotKeys ();

Get «Hot» keys table from the scale to the PC memory buffer. You can get the «Hot» keys assignment with GetHotKeyValue method.

Properties used:

Name	Type	Limits	Read/Write	Description
IPAddress	string		RW	Scale IP-address.

Properties changed:

Name	Type	Limits	Read/Write	Description
LastCmdOk	bool		R	Scale command execution result.
LastError	long		R	Last operation error code.
LastErrorMessage	string		R	Last operation error code text description.
ScaleVersion	string		R	Scale identity info.

SerialNumber	bool		R	Scale serial number.
MaxMessages	long		R	Maximum posible number of messages.
DisplayType	long		R	Scale display type.

GetHotKeyValue (long HotKeyNo);

Get PLU code that certain «Hot» key is linked to (HotKeyNo). As a parameter you send the «Hot» key number,result is the PLU code (PLUNumber), the one that is set as a unique in the PLU base.
As an alternative way you can use HotKey_KeyNo and HotKey_PLUNumber parameters. First you set HotKey_KeyNo to be the «Hot» key number, then you read the HotKey_PLUNumber property, it contain code of the PLU associated with this «Hot» key.

SetHotKeyValue (long HotKeyNo, long PLUNumber);

Associate a certain PLU code (PLUNumber) to a certain «Hot» key (HotKeyNo). As a parameter you send the «Hot» key number and the PLU code (PLUNumber).
As an alternative way you can use HotKey_KeyNo and HotKey_PLUNumber parameters. First you set HotKey_KeyNo to be the «Hot» key number, then you set HotKey_PLUNumber to be the PLU code for it to be associated with it.

SetExtraMessages ();

Transfer of additional screen and label messages from the PC memory buffer to the scale. These messages should be recorder to the PC memory buffer with properties ExtraMessage_DisplayAndPrint, ExtraMessage_PrintLine1 and ExtraMessage_PrintLine2.

Properties used:

Name	Type	Limits	Read/Write	Description
IPAddress	string		RW	Scale IP-address.
ExtraMessage_DisplayAndPrint	string	up to 32 characters	RW	Message for the screen and labels
ExtraMessage_PrintLine1	string	up to 28 characters	RW	Label message (line 1)
ExtraMessage_PrintLine2	string	up to 28 characters	RW	Label message (line 2)

Properties changed:

Name	Type	Limits	Read/Write	Description
LastCmdOk	bool		R	Scale command execution result.
LastError	long		R	Last operation error code.
LastErrorMessage	string		R	Last operation error code text description.
ScaleVersion	string		R	Scale identity info.
SerialNumber	bool		R	Scale serial number.
MaxMessages	long		R	Maximum posible number of messages.
DisplayType	long		R	Scale display type.

GetExtraMessages ();

Get additional screen and label messages to the PC memory buffer from the scale. Further these messages will be awailble through ExtraMessage_DisplayAndPrint, ExtraMessage_PrintLine1 and ExtraMessage_PrintLine2 properties.

Properties used:

Name	Type	Limits	Read/Write	Description
IPAddress	string		RW	Scale IP-address.

Properties changed:

Name	Type	Limits	Read/Write	Description
LastCmdOk	bool		R	Scale command execution result.
LastError	long		R	Last operation error code.
LastErrorMessage	string		R	Last operation error code text description.
ScaleVersion	string		R	Scale identity info.
SerialNumber	bool		R	Scale serial number.
MaxMessages	long		R	Maximum posible number of messages.
DisplayType	long		R	Scale display type.
ExtraMessage_DisplayAndPrint	string	up to 32 characters	RW	Message for the screen and labels
ExtraMessage_PrintLine1	string	up to 28 characters	RW	Label message (line 1)
ExtraMessage_PrintLine2	string	up to 28 characters	RW	Label message (line 2)

ClearAccount ();

Clean sales reports from the scale.

Properties used:

Name	Type	Limits	Read/Write	Description
IPAddress	string		RW	Scale IP-address.

Properties changed:

Name	Type	Limits	Read/Write	Description
LastCmdOk	bool		R	Scale command execution result.
LastError	long		R	Last operation error code.
LastErrorMessage	string		R	Last operation error code text description.
ScaleVersion	string		R	Scale identity info.
SerialNumber	bool		R	Scale serial number.
MaxMessages	long		R	Maximum posible number of messages.
DisplayType	long		R	Scale display type.

GetAccount ();

Get sales report from the scale to the PC memory buffer.Number of lines in the report received can be read from AccounCount property. Further access to the lines is awailble with use of the reference-property Account_CurrentNo and properties with "Account_" prefix.

Properties used:

Name	Type	Limits	Read/Write	Description
IPAddress	string		RW	Scale IP-address.
ClearAccountAfterGet	bool		RW	True – cleans the data in the scale after it is transferred.

Properties changed:

Name	Type	Limits	Read/Write	Description
LastCmdOk	bool		R	Scale command execution result.
LastError	long		R	Last operation error code.
LastErrorMessage	string		R	Last operation error code text description.
ScaleVersion	string		R	Scale identity info.
SerialNumber	bool		R	Scale serial number.
MaxMessages	long		R	Maximum posible number of messages.
DisplayType	long		R	Scale display type.
AccountCount	long		R	Number of lines in the sales report
Account_CurrentNo	long	1…AccountCount	RW	Current sales report line.

SetLabelFile (string AFileName);

Transfer label format from the PC disk file to the scale memory.
Label format file could be edited with Label editor SW. It is provided in the standard SW set with the driver and the file name is lab.exe.

Properties used:

Name	Type	Limits	Read/Write	Description
IPAddress	String		RW	Scale IP-address.

Properties changed:

Name	Type	Limits	Read/Write	Description
LastCmdOk	bool		R	Scale command execution result.
LastError	long		R	Last operation error code.
LastErrorMessage	string		R	Last operation error code text description.
ScaleVersion	string		R	Scale identity info.
SerialNumber	bool		R	Scale serial number.
MaxMessages	long		R	Maximum posible number of messages.
DisplayType	long		R	Scale display type.

SetLabelFileExt (string AFileName, long ALabelType);

Transfer label format from the PC disk file to the scale memory.
Label type (ALabelType) could equal to an integer from 0 to 7, which corresponds to A0, A1, B0, B1, C0, C1, D0, D1 label formats.
Label format file could be edited with Label editor SW. It is provided in the standard SW set with the driver and the file name is lab.exe

Properties used:

Name	Type	Limits	Read/Write	Description

IPAddress	string			RW	Scale IP-address.

Properties changed:

Name	Type	Limits	Read/Write	Description
LastCmdOk	bool		R	Scale command execution result.
LastError	long		R	Last operation error code.
LastErrorMessage	string		R	Last operation error code text description.
ScaleVersion	string		R	Scale identity info.
SerialNumber	bool		R	Scale serial number.
MaxMessages	long		R	Maximum posible number of messages.
DisplayType	long		R	Scale display type.

GetLabelFile (string AFileName, long ALabelType);

Transfer label format from the scale to the PC disk file.
Label type (ALabelType) could equal to an integer from 0 to 7, which corresponds to A0, A1, B0, B1, C0, C1, D0, D1 label formats.
If file already exists it will be overwritten without confirmation.

Properties used:

Name	Type	Limits	Read/Write	Description
IPAddress	string		RW	Scale IP-address.

Properties changed:

Name	Type	Limits	Read/Write	Description
LastCmdOk	bool		R	Scale command execution result.
LastError	long		R	Last operation error code.
LastErrorMessage	string		R	Last operation error code text description.
ScaleVersion	string		R	Scale identity info.
SerialNumber	bool		R	Scale serial number.
MaxMessages	long		R	Maximum posible number of messages.
DisplayType	long		R	Scale display type.

SetFontFile (string AFileName, long AFontType);

Label fonts transfer from the PC disk file to the scale memory.
Font type (AFontType) could equal to an integer: 0 – font 8x16, 1 – font 8x24, 2 – font 16x32, 3 – font 12x24, 4 – font 8H16.
Font files could be created with lab.exe. It is provided in the standard SW set with the driver.

Properties used:

Name	Type	Limits	Read/Write	Description
IPAddress	string		RW	Scale IP-address.

Properties changed:

Name	Type	Limits	Read/Write	Description
LastCmdOk	bool		R	Scale command execution result.
LastError	long		R	Last operation error code.

LastErrorMessage	string		R	Last operation error code text description.
ScaleVersion	string		R	Scale identity info.
SerialNumber	bool		R	Scale serial number.
MaxMessages	long		R	Maximum posible number of messages.
DisplayType	long		R	Scale display type.

SetLogoFile (string AFileName);

Screen Logo picture file transfer from the PC disk file to the scale memory.
File should be in BMP format. And can contain a black and white picture 256 to 32 pix for the big screen or 128 to 62 pixels for the small screen. In case if picture exceeds the screen size it will be cut automatically while transfer to the scale.

Properties used:

Name	Type	Limits	Read/Write	Description
IPAddress	string		RW	Scale IP-address.

Properties changed:

Name	Type	Limits	Read/Write	Description
LastCmdOk	bool		R	Scale command execution result.
LastError	long		R	Last operation error code.
LastErrorMessage	string		R	Last operation error code text description.
ScaleVersion	string		R	Scale identity info.
SerialNumber	bool		R	Scale serial number.
MaxMessages	long		R	Maximum posible number of messages.
DisplayType	long		R	Scale display type.

FullResetScale ();

Clean all the data in the scale. After this command you need to program scale settings, PLU data, messages, labels, fonts.

Properties used:

Name	Type	Limits	Read/Write	Description
IPAddress	string		RW	Scale IP-address.

Properties changed:

Name	Type	Limits	Read/Write	Description
LastCmdOk	bool		R	Scale command execution result.
LastError	long		R	Last operation error code.
LastErrorMessage	string		R	Last operation error code text description.
ScaleVersion	string		R	Scale identity info.
SerialNumber	bool		R	Scale serial number.
MaxMessages	long		R	Maximum posible number of messages.
DisplayType	long		R	Scale display type.

4. Driver properties

Name	Type	Limits	Read/Write	Description
General properties				
IPAddress	string		RW	Scale IP-address «xxx.xxx.xxx.xxx».
ScaleModel	string		R	Scale identity info.
ScaleVersion	string		R	Scale FW version number.
ScaleVersionDate	date		R	Scale FW date.
TestLinkOk	bool		R	Scale communication test result.
LastCmdOk	bool		R	Last operation result. True, when operation went on successfully.
LastError	long		R	Last operation error code. 0, when there were no mistakes.
LastErrorMessage	string		R	Last operation error code text description.
SerialNumber	string		R	Scale serial number.
MaxMessages	long		R	Maximum number of messages that could be used in the current scale version
DisplayType	long		R	Scale display type. 0 – big (horizontal). 1 – small (square). 2 – intagated to the base (no pole scale). 99 – unknown.
NoDisplayInfo	bool		R	Flag that is set if scale does not support reading from the screen. 0 –Screen can be read. 1 – Screen can't be read.
DisplayInfo_Text	string		R	Scale display info: Main field info.
DisplayInfo_PLUNumber	string		R	Scale display info: PLU code.
DisplayInfo_Weight	string		R	Scale display info: PLU weight.
DisplayInfo_Price	string		R	Scale display info: PLU price.
DisplayInfo_Total	string		R	Scale display info: Total sum.
	string		R	Scale display info: Main field info.
DisplayInfo_Status	string		R	Scale display info: Additional segments.
Messages lines access properties				
LabelText_CurrentNo	long	1…10999	RW	Current message in the PC memory buffer number.
LabelText_Message1	string	Total length < 897 characters	RW	Message line 1. Multiline with line breakers "\r\n".
LabelText_Message2	string	Total length < 897 characters	RW	Message line 2. Single line
PLU properties access parameters.				
PLUCount	long	1…20000	R	Number of PLUs in the buffer.
PLU_CurrentNo	long	1…20000	RW	Current PLU in the buffer number.
PLU_Number	long	1…999999	RW	PLU number. Used for referencing certain PLU and for updating PLU data from PC.
PLU_Name	string	Up to 248 characters	RW	PLU name. For line brake use - "//".
PLU_AddCode	long	1…99999999	RW	Additional PLU code.

PLU_BarCodeType	long	0…99	RW	Barcode structure code.
PLU_Price	double	0…99999,99	RW	Price.
PLU_WeightUnit	long	0…12	RW	PLU type: 0 – 50 g. 1 – g. 2 – 10 g. 3 – 100 g. 4 – Kg. 5 – Oz. 6 – Pounds 7 – 500 g. 8 – 600 g. 9 – item sold by item g. 10 – item sold by item Kg. 11 – item sold by item Oz. 12 – item sold by item Pound.
PLU_Dep	long	0…99	RW	Department.
PLU_Tare	double	0…15,000	RW	Tare weight.
PLU_ShlefTime	long	-9999…9999	RW	Shelf life. Negative – Shelf life is set in hours. Positive – Shelf life is set in days. 364 – don't print Shelf life expiry date. 365 – don't print both shelf life expiry date and packed date
PLU_PackageType	long	0…3	RW	Package type: 0 – Common 1 – Fixed weight 2 – Fixed price 3 – Fixed weight and price
PLU_PackageWeight	double	0…15,000	RW	Package weight.
PLU_Tolerance	long	0…20	RW	Package weight tolerance.
PLU_Message	long	0…10999	RW	Message № in the message base.
PLU_Label	long	0…7	RW	Label type: 0 – A0 1 – A1 2 – B0 3 – B1 4 – C0 5 – C1 6 – D0 7 – D1
PLU_Rebate	long	-10…125	RW	Time bound discount type number or a discount persent. -10…-1 – Time bound discount type number (from 10 to 1); 0 – no discount; 1…125 – discount %.
«Hot» keys access properties				
HotKey_KeyNo	long	1…224	RW	
HotKey_PLUNumber	long	1…20000	RW	
Settings access properties				
Settings_PaperType	long	0..2		Paper kind (Label or receipt tape): 0 – Labels 1 – receipt (1 type) 2 – receipt (2 type)
Settings_LabelType	long	0…7		Default label format (Used for new PLU): 0 – A0 1 – A1 2 – B0

				3 – B1 4 – C0 5 – C1 6 – D0 7 – D1
Settings_BarCodeType	long	0…99	RW	Default Bare-code (Used for new PLU):
Settings_DateFormat	long	0…2	RW	Data format: 0 – Day-Month-Year 1 – Month-Day-Year 2 – Year-Day-Month
Settings_YearFormat	long		RW	Year format: 0 – YY 1 – YYYY
Settings_PackageTolerance	long	1…20	RW	Default scatter range for fixed weight (Used for new PLU)
Settings_DecimalPosition	long	0…3	RW	Decimal divider position
Settings_TotalPricePrecision	long	1…3	RW	Total sum round-off mode: 0 – N.N0 1 – N.NN 2 – N.N
Settings_Rounding	long	1…10	RW	Round-off rule
Settings_Message	long	1…10999	RW	Default message (Used for new PLU)
Settings_18BarCode	long	0…3	RW	18 digits barcode type: 0 - Width int 2/5 1 - Narrow int 2/5 2 - EAN 128 3 - Narrow EAN 128
Settings_AccountType	long	0…2	RW	Report type: 0 – by summ 1 – by weight 2 – by number
Settings_PrintBackground	bool		RW	Print background
Settings_PrintWeightUnitOfUnitPrice	bool		RW	Print PLU type in the price
Settings_PrintTime	bool		RW	Print time in shelf life
Settings_PrintDiscountMark	bool		RW	Print price without discount NB: Current scale FW version does not support this
Settings_PrintWeightUnitOfWeight	bool		RW	Print weight text
Settings_UseOriginalPriceOnBarcode	bool		RW	Price in bare-code without discount
Settings_UpdateTimeFromPCOnConnect	bool		RW	Sync time when communicating to PC
Settings_AntiWind	bool		RW	Use mean value for unstable weight
Settings_TotalPriceDiscount	bool		RW	Current scale FW version does not support this.
Settings_RebateTo23Dep	bool		RW	Reg PLU as belonging to 23rd department when using a discount
Settings_NoGapLabel	bool		RW	No gap label tape
Settings_UseExtShelfTime	bool		RW	Use special shelf life mode
Settings_AllowPrintZeroWeight	bool		RW	Allow zero weight print
Settings_PrintSpeed	long	0…7	RW	Currently not used
Settings_PrintDirection	long	0…2	RW	Print direction: 0 – horizontally 1 – vertically 2 –180 degrees turn
Settings_AlignPLUName	long	0…2	RW	PLU name alignment: 0 – Center 1 – Left 2 – Right
Settings_PrintTestLabel	bool		RW	Print test label when auto-adjusting label position.

Settings_DisplayBrightness	long	0…2	RW	Display brightness (Only for square display): 0 – regular 1 – bright 2 – dark
Settings_LockSystemFunction	bool		RW	Enable password for scale programming mode
Settings_LockAccountFunction	bool		RW	Enable password for scale reports mode
Settings_LockPLUFunction	bool		RW	Enable password for PLU edition from the scale
Settings_LockDiscountFunction	bool		RW	Enable password for manual discounts
Settings_LockPriceFunction	bool		RW	Enable password for manual PLU price changing
Settings_LockTareFunction	bool		RW	Enable password for manual Tare editing
Settings_OnlyPLUKey	bool		RW	Forbid choosing PLU by code
Settings_SystemPassword	string	4 digits	RW	Program mode password
Settings_AccountPassword	string	4 digits	RW	Reports mode password
Settings_PLUPassword	string	4 digits	RW	PLU editing password
Settings_DiscountPassword	string	4 digits	RW	Manual discounts password
Settings_PricePassword	string	4 digits	RW	PLU price changing password
Settings_TarePassword	string	4 digits	RW	Tare edition password
Settings_En_50g	bool		RW	Use this PLU type on the scale
Settings_En_g	bool		RW	Use this PLU type on the scale
Settings_En_10g	bool		RW	Use this PLU type on the scale
Settings_En_100g	bool		RW	Use this PLU type on the scale
Settings_En_Kg	bool		RW	Use this PLU type on the scale
Settings_En_Oz	bool		RW	Use this PLU type on the scale
Settings_En_Lb	bool		RW	Use this PLU type on the scale
Settings_En_500g	bool		RW	Use this PLU type on the scale
Settings_En_600g	bool		RW	Use this PLU type on the scale
Settings_En_PCS_g	bool		RW	Use this PLU type on the scale
Settings_En_PCS_Kg	bool		RW	Use this PLU type on the scale
Settings_En_PCS_Oz	bool		RW	Use this PLU type on the scale
Settings_En_PCS_Lb	bool		RW	Use this PLU type on the scale
Sales report lines access properties.				
AccountCount	long		R	Number of lines in the sales report
Account_CurrentNo	long	1…AccountNumbers	RW	Current sales report line.
ClearAccountAfterGet	bool		RW	True – cleans the data in the scale after it is transferred.
Account_PLUNumber	long		R	PLU number
Account_OnLineTime	date		R	
Account_Quantity	long		R	PLUs sold.
Account_Rebate	long		R	PLU discount.
Account_SaleTime	date		R	
Account_TotalPrice	double		R	Total sold money amount.
Account_UnitPrice	double		R	PLU price.
Account_Weight	double		R	Total sold weight.
Account_WeightUnit	long		R	
Additional screen and label messages access properties.				
ExtraMessage_DisplayAndPrint	string	up to 32 characters	RW	Display and label message.
ExtraMessage_PrintLine1	string	up to 28 characters	RW	Label message (line 1) .
ExtraMessage_PrintLine2	string	up to 28 characters	RW	Label message (line 2).

5. Additional driver properties

Bool EnableShowProgress

Enables the screen window with data transfer to/from the scale progress status.
Progress is displayed if operation takes longer than 2-3 seconds.
True – Enable.
False – Disable.

Bool Driver_EnableLogFile

Enable log-file recording.
True - Enable.
False – Disable.

String Driver_LogFileName

Log-file name. If this name does not contain the file path it will be saved to the scale driver catalog.

This function is not currently supported by the driver.

String DriverVersion

String DriverDate

Lines containing driver version number and date.

Bool EnableLongText

Enable use of extended texts in the PLU name and massage.
True – Enable. PLU name up to 248 characters, Message line 1 + message line 2 up to 896 characters.
False – Disable. PLU name up to 36 characters, Message line1 + message line 2 up to 246 characters.

6. <u>Error</u> <u>codes</u>

Error code	Description
0	No errors.
1	Scale connection error.
2	Scale IP-address is wrong.
3	File open error.
4	File read error.
5	Data transfer through the channel to the scale error.
6	Data transfer through the channel from the scale error
7	Protection error (wrong scale serial number or license absent).
8	Operation terminated by user.
9	Data communication to/from the scale is in progress.
10	No PLU for transfer to the scale.
11	PLU creation error. Maximum PLU number is exceeded.
12	Message creation error. Maximum message number is exceeded.
13	Maximum message length is exceeded. Max is 1024 characters.
14	Scale FW updates error.
15	Communication error. Wrong FW check sum.
16	Error. Received data contains a mistake.
17	Error has accrued while writing a debugging file.
18	Security signage receipt error.
19	Current function is currently unavailable.
20	File under question does not exist.
21	Data communication to the scale error.
22	Scale flash-memory record error.
23	Scale flash-memory overflow
24	Write error. Protection jumper is set to prevent writing.
25	Scale SW and HW parts mismatch
26	Print error: printer is busy.
27	Print error: remove the previewsly printed label.
28	Print error: Close printer.
29	Print error: scale reload is in progress.
30	Print error: PLU price is not defined, enter PLU price.
31	Print error: PLU tare weight error.
32	Print error: weight error.
33	Print error: chosen PLU not found.
34	Print error: PLU weight change is required.
35	Identical equipment serial numbers detected.

7. Technical support

All the users that purchased the Aclas scale software are eligible for the technical support by the engineers of "Scat Electronics".
In order to get assistance please contact us:
phone: +7 (495) 661-6082
or through the web: http://www.skel.ru/

If you would encounter any mistakes or flows in our products please let "Scat Electronics" technical support know about it.