# **USB Remote Software**

# **Instruction Manual**

# *For Scale V6.1* [*READ BEFORE PLUGGING THE SCALE TO COMPUTER*]



Arlyn Scales 59 Second Street East Rockaway, NY 11518 (516) 593-4465 www.arlynscales.com Rev 3.1

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## Introduction and Overview

Thank you for purchasing the USB Remote Software Package for your Arlyn Scale. You may use this to connect up to ten USB capable scale indicators to a single PC. Included is the USB Remote Windows Software and drivers, which will allow you to switch between scales while live readings are taking place. A faceplate similar to the scale's faceplate is shown on the screen and all of the keys are live. Clicking the key on the screen will cause the scale to perform the same function as if you had pressed the key on the scale itself, giving you full remote capability.

There is also a data collection function that will capture readings, and store them in a Microsoft Access compatible database. This Access Database is a stand-alone file (RIDATA.MDB) that is not protected or encrypted in any way. Microsoft Access 2.0 was purposely chosen so that users with more up to date versions of Access will have no trouble attaching to, or importing data from it.

Another screen allows you to view the readings that were collected, and easily separate data from multiple scales. You can also export the data to a CSV (comma separated values) text file that can then be imported into a number of popular Windows software packages.

The actual connection is made directly to the USB port on your computer. On most computers there are generally only two USB ports available and are sometimes already committed to external disk drives and other peripherals. In these cases, or in cases where you wish to hook up more than two scales, a USB expander hub may be used. These are widely available in many computer stores.

### **Features**

- \* Easy installation and operation
- \* Automatic USB scan and scale configuration
- \* Complete remote keyboard capability
- \* Data collection with statistical analysis
- \* Virtual COM Port Capability

- \* Data separation and export capability
- \* Plug and play compatibility
- \* USB is self powered
- Up to ten scale indicators may be connected

## **System Requirements**

Before proceeding, please read and understand the chapter entitled *"License Agreement – Technical Support"*. The drivers and their authors dictate the system requirements. Arlyn has no control over the update path or future availability of these drivers.

- A computer with USB capability. One free USB port is required for each scale. A USB expander hub may be used.
- Full Microsoft Windows XP Support. Partial support in Vista/7 Operating System\* (Read the special section entitled *"Remote Indicator with Windows 7/Vista"*. The Virtual COM Port property of the USB is supported in all versions of Windows Vista/7.)
- 5 Megabytes of free hard drive space

## **Installation - Quick-Start**

To get up and running quickly, perform the following procedure:

- Configure your scale indicator as per the section entitled "Configuring Your Scale Indicator for USB".
- Install the USB hardware drivers by completing the section *"Installing the USB Drivers"*, and then reboot your PC.
- Install the USB Remote Indicator Software by completing the section "Installing Remote Indicator Software".
- Press the On/Off button to bring the scale indicator into its main weighing screen.
- Click on Start->All Programs->Arlyn Scales->Remote Indicator->Remote Indicator
- On the Menu bar, on the main screen of the Remote Indicator, click on "Activate Remote Screen".
- A screen showing a scale faceplate similar to the one on your indicator is shown and in a moment live reading will be shown on the screen.

## **Configuring Your Scale Indicator for USB**

Your scale indicator must be configured properly for it to communicate with its internal USB controller. The actual communication is done through an RS232 link between the scale's main processor and the USB controller. Ant scale purchased from Arlyn Scales with a USB option will have this setup completed prior to shipping from the factory. If the settings have been changed, or otherwise lost, you can recreate them using the procedure below. Please refer to the Options Manual for editing RS232 setups.

- Add a single print frame.
- Edit the print frame so that is has only one line in it, with the following parameters: FUNCTN = Weight, SOURCE = Plat#001, C = Checked, L = Checked, SP = 0
- Save the print frame.
- In the print frames list, make sure that the frame is activated by placing a check mark next to it.
- Modify the port configuration to have the following parameters:
   BAUD = 9600, DATA BITS = 8, STOP BITS = 1, PARITY = None, ECHO = Off

During normal use, the scale should be in one of its main weighing screens. The indicator will not send RS232 signals while it is in a menu, or anything other than its main weighing screen.

## Installing the USB Drivers

The first step in the installation is to install the USB drivers on your computer.

A CD of drivers, Remote Indicator software will be shipped along with the scale.

#### WINDOWS XP INSTALLATION

- 1. Apply power to the scale by plugging it into a wall outlet. The scale can be placed either in its normal weighing mode or at the "Ready" prompt.
- 2. Make sure the "Arlyn Scale USB CD" is in your CD-ROM drive.
- 3. Plug the USB cable from the indicator into the USB port on the back of the PC, or into the expander hub if you are using one. Windows XP will prompt you with a "Found New Hardware Wizard".

Found New Hardware Wiz	ard
	Welcome to the Found New Hardware Wizard Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission). Read our privacy policy
	Can Windows connect to Windows Update to search for software? O Yes, this time only O Yes, now and every time I connect a device O No, not this time
	Click Next to continue.
	< Back Next > Cancel

Select "No, not this time" on the dialog box. Press NEXT.



Select "Install from a list of specific location (Advanced)". Press NEXT.

<sup>o</sup> lease ch	oose your search and installation options.	EUT
⊙ <u>S</u> ea	rch for the best driver in these locations.	
Use path	the check boxes below to limit or expand the default search, which includes lo s and removable media. The best driver found will be installed.	ocal
6	Search removable media (floppy, CD-ROM)	
E	Include this location in the search	
	C:\svnroot\USB Remote Version 3_1 Browse	
O Dor	't search. I will choose the driver to install.	
Cho the	ose this option to select the device driver from a list. Windows does not guara driver you choose will be the best match for your hardware.	intee I

Select "Search for the best driver in these locations". Put checkmark ONLY on "Search removable media". Press NEXT.



Press CONTINUE ANYWAY.

This completes the driver installation for the scale for Windows XP. For Windows 7/Vista installation, go to the next steps.

#### WINDOWS VISTA/7 INSTALLATION

- 1. DO NOT CONNECT SCALE USB CABLE TO THE COMPUTER UNTIL PROMPTED IN THE FOLLOWING STEPS.
- 2. Put the CD into your PC
- 3. Go to Start->All Programs->Accessories->Run
- 4. On the path, type "hdwwiz". The following window opens.

Add Hardware	
	Welcome to the Add Hardware Wizard
	This wizard helps you install driver software to support older devices that do not support Plug-and-Play and which are not automatically recognized by Windows.
	You should only use this wizard if you are an advanced user or you have been directed here by technical support.
	If your hardware came with an installation CD, it is recommended that you click Cancel to close this wizard and use the manufacturer's CD to install this hardware.
	To continue, click Next.
	< <u>B</u> ack <u>Next</u> Cancel

5. Press NEXT.



Select "Install the hardware that I manually select from a list (Advanced)". Press NEXT.

6. In the next dialog box, scroll down the list until you see "Ports (COM & LPT). Select it and then press NEXT.

Add Hardware	
From the list below, select the type of hardware you are installing	
If you do not see the hardware category you want, click Show All Devices.	
Common <u>h</u> ardware types:	
👰 Network adapters	*
PCMCIA adapters	
Portable Devices	
Ports (COM & LPT)	
🖶 Printers	=
🖗 SBP2 IEEE 1394 Devices	
SD host adapters	
Security Devices	
Sensors	Ŧ
< Back Next >	Cancel

7. In the next dialog box, click the "Have Disk..." button.

Select the device driver you want to install for this hardware.         Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.         Manufacturer       Model         Sciencity of types)       Sciencity of types         Circuits And Systems, Inc.       Science Port         Hewlett Packard       Wultiport Communications Port         NT Composition       Printer Port         This driver is digitally signed.       Have Disk         Tell me why driver signing is important       Important	Add Hardware	
Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.          Manufacturer       Model         [Standard port types]       Communications Port         Circuits And Systems, Inc.       ECP Printer Port         Hewlett Packard       Multiport Communications Port         NT Connerstion       Printer Port         Image: This driver is digitally signed.       Have Disk	Select the device driver you want	to install for this hardware.
Manufacturer       Model         (Standard port types)       Circuits And Systems, Inc.         Circuits And Systems, Inc.       ECP Printer Port         Hewlett Packard       Multiport Communications Port         N/T Connoration       Printer Port         This driver is digitally signed.       Have Disk         Tell me why driver signing is important	Select the manufacturer and disk that contains the driver	model of your hardware device and then click Next. If you have a you want to install, click Have Disk.
This driver is digitally signed. <u>Tell me why driver signing is important</u>	Manufacturer (Standard port types) Circuits And Systems, Inc. Hewlett Packard VT Cornoration	Model Communications Port ECP Printer Port Multiport Communications Port Printer Port
< Back Next > Cancel	This driver is digitally signed. <u>Tell me why driver signing is imp</u>	ortant

8. In the next dialog box, click on "Browse" and select the Drive where the "Arlyn Scale USB CD" resides.

Install From	n Disk	×	
4	Insert the manufacturer's installation disk, and then make sure that the correct drive is selected below.	OK Cancel	
	Copy manufacturer's files from: D:	Browse	
🕐 Loca	te File		X
Look in	DVD RW Drive (D:)	3 🤌 🕫 🛄	
Name	^	Date modified	ту
Files	Currently on the Disc (1)		
a sca	le6-vcom.inf	12/13/2010 5:12 PM	Se
•	III		۴
File <u>n</u> am	e: scale6-vcom.inf	- Open	
Files of <u>t</u>	ype: Setup Information (*.inf)	- Cancel	

9. Press the OK button. The next dialog box will show the driver detected. Press NEXT twice.

Add Hardware			
Select the devic	ce driver you want to install f	or this hardware.	
Select the disk that	e manufacturer and model of y contains the driver you want to	our hardware device and then click N o install, click Have Disk.	lext. If you have a
Model			
Arlyn Scale V6.	1 - USB		
A This driver is	not digitally signed!		<u>H</u> ave Disk
Tell me why d	lriver signing is important		
		< <u>B</u> ack Next >	Cancel

- 10. Press CONTINUE ANYWAY if a prompt appears about the driver not being digitally signed.
- 11. The final dialog box will look like this. The driver has been successfully installed.

Add Hardware	
	Completing the Add Hardware Wizard
	The following hardware was installed: Arlyn Scale V6.1 - USB The software for this device is now installed, but may not work correctly. This device cannot start. (Code 10)
	View or change resources for this hardware (Advanced)         To close this wizard, click Finish.         < Back       Finish         Cancel

- 12. Apply power to the scale by plugging it into a wall outlet. The scale can be placed either in its normal weighing mode or at the "Ready" prompt.
- 13. Plug the USB cable from the indicator into the USB port on the back of the PC, or into the expander hub if you are using one. Windows 7 will start to detect the USB device and install the device for you.

This completes the USB device driver installation of your scale for Windows 7/Vista.

#### DRIVER OPERATION AND VIRTUAL COM PORT CAPABILITY

The USB works as Virtual COM/Serial Port. This gives you the flexibility to develop your own application that can utilize the USB connectivity of the scale without dealing with the complexities of the USB protocol. Just map the Serial COM port of your application to the COM port mapped by your USB. The following steps describe how you can obtain the COM port number for your USB Scale. Please note, that you will need the COM port number for Remote Indicator software.

#### For Windows XP

Press Start->Control Panel and then click the "System" Icon. Press the Hardware tab.

System	Restore	Automa	itic Updates	Remote
General	Comput	er Name	Hardware	Advanced
Device M	lanager			8 89 B
S	on your comput	nager lists all er. Use the D	the hardware device evice Manager to ch	es installed hange the
~	properties of an	y device.		lange ine
			Device Ma	anager
Drivers				
and 1	Driver Signing le	ets vou make	sure that installed dr	ivers are
	compatible with	Windows. W	indows Update lets ;	you set up
	now windows c	connects to v	/indows Update for (	drivers.
1	Driver <u>S</u> i	igning	Windows L	Ipdate
۱	Driver <u>S</u> i	igning	U <u>W</u> indows L	Ipdate
( Hardware	Driver <u>S</u> i Profiles	igning	<u>W</u> indows L	lpdate
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( Hardware	Driver <u>S</u> i Profiles Hardware profile different hardwa	igning es provide a v are configurat	way for you to set up ons. Hardware !	and store

Click the Device Manager button. On the resulting dialog box, expand the Ports section.

🖳 Device Manager	
Eile Action View Help ← → III 🎒 😰 III 🏽	
<ul> <li>Batteries</li> <li>Computer</li> <li>Disk drives</li> <li>Display adapters</li> <li>DVD/CD-ROM drives</li> <li>Human Interface Devices</li> <li>IDE ATA/ATAPI controllers</li> <li>Keyboards</li> <li>Mice and other pointing devices</li> <li>Modems</li> <li>Monitors</li> <li>Monitors</li> <li>Ports (COM &amp; LPT)</li> <li>Arlyn Scale V6.1 - USB (COM4)</li> <li>Processors</li> <li>Sound, video and game controllers</li> <li>System devices</li> <li>Universal Serial Bus controllers</li> </ul>	

Note down the COM number of the device marked "Arlyn Scale V6.1 – USB (COMx). The "x" denotes the number your PC has assigned to the scale. Use this number in Remote Indicator to communicate with the scale. Also, you can use this number for your own application interface.

#### For Windows 7

Press Start->Control Panel and then click the "Device Manager" Icon. This is the screen you will see.



Note down the COM number of the device marked "Arlyn Scale V6.1 – USB (COMx). The "x" denotes the number your PC has assigned to the scale. Use this number in Remote Indicator to communicate with the scale. Also, you can use this number for your own application interface.

The next step is to install Remote Indicator Software.

## **Installing Remote Indicator Software**

You can download the Remote Indicator software from the website or if you have a CD, the drivers will be present in that CD.

#### WINDOWS 7 INSTALLATION

- 1. Open the CD drive and then right click on Setup.exe. Then select "Run as Administrator."
- 2. Click next until you complete the wizard.
- 3. You might receive some error messages about registration warnings. Please ignore them and click OK when applicable.
- 4. When installation completes, the Remote Indicator program **will still not run**. For Windows 7, you need to run the software in Windows XP Compatibility mode. To do this:
  - a. Go to Start->Computer
  - b. Click on the C:\ icon.
  - c. Go to the Program Files->Arlyn Scales->Remote Indicator.
  - d. Right click the RemoteIndicator.exe file and chose "Properties"
  - e. Click on the Compatibility Tab

	compatibility	Security	Details	Previous Versions
If you ha an earlie matches	ave problems w er version of Wi s that earlier ve	rith this pro indows, sel rsion.	gram and lect the c	it worked correctly on ompatibility mode that
<u>Help m</u>	<u>ne choose the</u>	settings		
Comp	atibility mode —			
V F	Run this program	n in compa	tibility mo	de for:
Wir	ndows XP (Serv	ice Pack 3	3)	-
Settin	gs			
Ē	Run in 256 colo	rs		
F	Run in 640 x 48	0 screen re	esolution	
	)isable visual th	emes		
	)isable deskton	compositi	00	
		compositio		
	visable display s	scaling on I	nigh DPI	settings
Privile	ge Level			
E	Run this program	n as an ad	ministrato	r
			_	
- <del>6</del> 90	hange settings:	for all use	rs	

- f. Click on "Change settings for all users."
- g. On the resulting dialog box, check the box on "Run this program in compatibility mode for:" and select Windows XP (Service Pack 3)" in the drop down list. Click OK and then click OK again. You can now run Remote Indicator software without any hitches in Windows 7.
- 5. Go to Start->All Programs-> Arlyn Scales -> Remote Indicator 2.65-> Remote Indicator to start the program.

#### WINDOWS XP INSTALLATION

- 1. Open the CD drive and click on Setup.exe.
- 2. Click next until you complete the wizard.
- 3. There are no additional steps to take in Windows XP.
- 6. Go to Start->All Programs-> Arlyn Scales -> Remote Indicator 2.65-> Remote Indicator to start the program.

## **Operational Overview**

## **Configuration Screen**

You can access this screen by selecting the View menu, then Setups, then Communications. It is pretty self-explanatory.

The current USB scale, (all scale versions 6.116 and above) uses a Virtual COM port technology for USB implementation. Due to this fact, the Remote Indicator is configured to be for RS232 communication.

Make sure that Comm Type is set to RS232 and that the baud rate is correct. The program is limited to 8 data bits, one stop bit with no parity.

#### **IMPORTANT!!**

In the COM port field, enter the value of the COM port number determined in "DRIVER OPERATION AND VIRTUAL COM PORT CAPABILITY" section of this manual. You can also use the Drop down list for the COM port and select the correct COM port.

Eile Activate Remote Scr	een Iools Help Exit	
	Setup  Communications  CommType:  Sesse  Data Path  Secale Configurations  Active:  Type:  R5485  Update	
	Network (D:     Image: Constraint of the state of the sta	

Once you have set these settings, click the Close button. And then press the **Activate Remote Screen** option to start Remote Indicator.

## **Running Remote Indicator**

When the USB Remote Software is first started, you will be shown a blank screen with a number of menu items available. The software is now in its "Standby State". The three menus that are available are **File**, **Activate Remote Screen**, **Tools**, **Help and Exit**.

When Remote Indicator is run at first, you might get an error that the COM port is currently in use or not present. Regardless whether this error appears or not, the first thing you need to do is map the COM port for your USB device in Remote Indicator configuration.

Read the section in <u>"RS232 Configuration Screen"</u> above to get information on how to configure Remote Indicator for USB use. Proceed through this section once you have done that.

Click on the menu item called **Activate Remote Screen**. When you do this, a number of things happen. First, the

Attrabute Renote Screen Tods telp Ext         ISB - Single Scale Made	6								
Ete Activate Remote Screen _ gots _ gets _ Ext             USB - Single Scale Mode             Image: Control of the point of	🔊 Arlyn Seales - Remote Indicator 📃 🗖 🗙								
USU - Single Sectore       Image: Control of Con	Eile	Activate Remote Screen Tools Help	Exit						
Weid?k         Time         Date         ScateID           Status         12/24/2007         15.00 PM         ////////////////////////////////////		USB - Single Scale Mode	234.6	Tare Tare	Ret Gross Units Units	Active Scale: ARLIVN SCALES - USB SN22805 * Operating Mode Single Enable Poline [ Network, Pol/Net Time] Auto Entry Mode Enter Weight Export Table Clear Table			
Status (12/24/2007   5.08 PM //		Weight Time	Date	ScaleID					
Status 12/24/2007 5:08 PM									
	Statu	21				12/24/2007 5:08 PM			

USB is scanned for any Arlyn Scales that may be attached to it. The program will then search its configuration records to find records, whose serial numbers match those that were scanned on the USB. If it finds those records it will load them, examine the previous configuration that was stored in that record and then configure the scale and the USB appropriately.

If this is the first time that the scale has been attached to the USB, there will be no configuration record for it. The program will then add a configuration record for this scale and assign it default values. Then it will link up with the scale and configure it appropriately. The default values for new scale configuration records can be modified and saved. This will be covered later.

The Scale screen is similar to the one shown here. You will notice that it has a keyboard and display almost identical to the scale, and live readings will be displayed.

To the right of the weight display there is a pull down box listing all of the Arlyn Scales that were detected on the USB. To switch from one scale to another simply pull down the list and select the desired scale. The description of each scale, in part, is its serial number. This number can be found on the rear face of most Arlyn indicators. The serial number of the scale is automatically uploaded to the USB port on start-up.

Below the pull down list, there is a frame box describing the Operating Mode.

#### **OPERATING MODE**

The Operating mode frame has four specifications; Single, Network, Enable Polling and Poll/Net Time.

- Single
  - Choose Single if you have a single scale connected to your USB port. If you have a network of scales connected to your USB port, choose this option if you only want to poll one scale in that network.
- Network
  - Choose Network ONLY if you have a network of scales connected to your USB port.
- Enable Polling
  - Placing a checkmark in front of this specification will continuously update the weight on the screen in intervals specified under Poll/Net Time specification. Once a checkmark is placed here, no further action is required from the user to update the weight screen.
  - Removing a checkmark in front of this specification will enable manual update of the weight screen.
     Now the weight will only be updated if the user presses the Print Key on the Arlyn Scale Front Panel.
- Poll/Net Time
  - This is how often the USB Software requests readings from the scale. This specification is synonymous with the *Enable Polling* specification. The time specified here is the interval time between two subsequent readings. It will determine how fast the scale will be polled for new readings.

#### WEIGHT RECORDING

Below the Operating mode frame, there is an *Enter Weight* button. Pressing this button will record the current weight on the screen on to a table displayed on the left of the panel. New Readings will be added to the table each time the Enter Weight button is pressed.



In Remote Indicator version 2.4, a checkbox is available above the *Enter Weight* button named *Auto Entry Mode*. When this checkbox is marked, and the *Enable Polling* checkbox is also marked, the weight will be entered automatically in the table each time the weight screen is updated. The timing of this feature also depends on the *Poll/Net Time*. This feature is yet to be implemented in the new release of the software (version 2.5).

The collection record includes the scale's ID, the weight, the time and the date that the reading was taken. If time and date are important in your application, ensure that the system time and date on your computer is set accurately.

#### **EXPORTING DATA**

Clicking on *Export Table* will export the table shown in to a Comma Separated List file (.CSV). This file can be opened using Microsoft Excel or any Spreadsheet Application of preference.

On the other hand, clicking on the Clear Table button will clear the table completely.

#### **REMOTE KEYPAD**

The keyboard shown will emulate all normal keystroke presses as if they were pressed on the scale's indicator itself. This keyboard, although fully functional will sometimes behave sluggishly depending on how the scale is configured and the rate at which the software requests readings from the scale. Just click on them slowly with your mouse and the key will activate. You may also key your way into the scale's menu system and navigate around within it. The screen on your computer will not show the menu, and it must be viewed on the scale itself. The display update will stop while any menu is activated.

## **Data Collection**

When activated for a particular scale, data will be collected and saved to a Microsoft Access database file located in the USB Software's installation directory. The name of the file is RIDATA.MDB. RIDATA.MDB contains only a single table

Microse	oft Access					
Eile Edit View Insert Format Records Iools <u>W</u> indow Help						
٤ - 日	I 🖨 🖪 💞 🕉	🗈 🖻 💉 🕑	🤹 🛃 👬	🍹 🚡 💎 🛤	▶★ 〆 🗇 ⁄涸 - 🔞 -	
-						
						-
	DataCol : Table				2	
	ScaleID	Weight	Time	Date	ID	
	ARLYN SCALE	234.4	5:16:36 PM	12/24/2007	19	
	ARLYN SCALE	234.4	5:16:37 PM	12/24/2007	20	
1	ARLYN SCALE	234.4	5:16:38 PM	12/24/2007	21	
	ARLYN SCALE	234.3	5:16:39 PM	12/24/2007	22	
	ARLYN SCALE	234.3	5:16:39 PM	12/24/2007	23	
	ARLYN SCALE	234.3	5:16:39 PM	12/24/2007	24	
	ARLYN SCALE	234.3	5:16:41 PM	12/24/2007	25	
	ARLYN SCALE	234.3	5:16:41 PM	12/24/2007	26	
	ARLYN SCALE	234.3	5:16:42 PM	12/24/2007	27	
*	ŧ				(AutoNumber)	
R	tecord: 14 🔍	1 🕨 🕅	▶* of 9			
						-

called DataCol. There are five fields within DataCol. These are ID (record counter), ScaleID (scales description), Reading, Time and Date. This MDB file is not protected or encrypted in any way. One may import this table into any database application that is compatible with Microsoft Access to generate data queries, reports and the like.

Access, although updated many times throughout the years, was chosen specifically for this software. This allows anyone running later versions of Access to easily attach to, or import the table without having to worry about version conflicts. Microsoft Access has been upward compatible since its inception.

Clicking the Clear List button will completely empty the table.

## **Scale Configurations and Defaults**

#### [Note: This section only applies to Scale software version 6.011f and below]

As mentioned in an earlier section, the software maintains a configuration record for all the Arlyn Scales that are attached, or have ever been attached to it. These configuration records control whether the scale is active (yes, you can make any scale inactive), how often the software polls the scale for readings, and the speed (baud rate) at which the scales internal USB controller communicates with the scale's main processor.

If the software detects a new scale on the USB, one that a configuration record doesn't exist for yet, it will create one based on the defaults specified in the scale configuration screen. The defaults are factory set to have the scale active, poll readings each 1.0 second and internal communications set to 9600 baud.

To modify a scale's configuration, start by opening the Scale Configuration Screen. Select **Tools** from the main menu, and then select **Setup.** Use the navigation buttons to line up on the desired record, make whatever changes you like and then click the update button. You

🍽 Arlyn Scales - Remote Indicator		_ 🗆 🛛
Elle Activate Remote Screen Iools Help Exit		
Setup		
Communications		
CommType: USB		
Baud: 9600		
Comm Port:		
Net Poll Time: 0 Print Frame		
Scale Configurations		
Description: APLYN SCALE - DSA05		
Network ID: 0		
Default Values For New Records		
Date Source:		
Time Source:		
Status	12/24/2007	6:17 PM

will notice the default values for new records on the lower half of the screen. This screen cannot be loaded while the

Remote Screen is open. That screen must be closed before any configuration changes are made. This is because the USB scanning, configuration and record maintenance is done upon activation of the Remote Screen.

## Automatic Polling vs. Print at Stability

As mentioned above, data from the scale is requested on a timed basis. This is not ideal in every situation. There are two other possibilities regarding initiating data transfers between scale and computer. Print On Demand

If you would like the data to be transmitted only when needed, you can set it up to not poll automatically, and instead the Print Button on the scale can be used to initiate the transfer. Simply go into the scale configurations in this software and set the poll time for the desired scale to 0 and save. The next time you go to the remote window you will not see any readings until you press the print button on the scale's faceplate. Print At Stability

There is a motion detect function in all Arlyn indicators that will transmit only if there is a stable weight on the platform that is greater than some preset threshold. This can be used to have the scale transmit the weight once the scale generates a stable reading.

The threshold weight along with two other configuration parameters can be setup in the scale's menu system. Consult the main instruction manual for details on how to do this.

## **Using RS232 Capable Scales with This Software**

Any Arlyn scale with an RS232 option installed can communicate with this software. This gives RS232 scales the capability of using the data collection and remote control features of this software. There are some points and limitations:

- Only one scale may be attached and recognized by the software.
- RS232 scales and USB scales cannot be used together.
- No special drivers are required for the RS232 interface. In fact, if you never plan to attach a USB scale to the system you may disregard installing USB drivers.
- The RS232 communications parameters as set in the scale's option menu must be duplicated in the remote software package. The baud rate must match and the scale needs to be set to 8 data bits, 1 stop bit with no parity or echo..
- A pre-defined scale configuration already exists in the software, there is nothing to add.
- Time and date is recorded in the data collection database. The source of the time and date may be from your PC, or if the scale is equipped with a time and date option, it may come from the scale itself.
- Even though a pre-defined print frame is set in the scale prior to shipping, you may feel free to add to or modify it. The software will automatically pick up the weight reading (and time and date if configured) no matter where it is located in the output frame. You do need to avoid using any ASCII "+" or "-" signs in your defined print frame (not including the one that prints with the reading). This will confuse the software rendering it incapable of finding the reading. If you must use it, then it must be output after the reading. This also applies to the time and date. In this case you can not use the ASCII characters "/" or ":", and if so must be located after the time and date.

## License Agreement – Technical Support

Before installing this software, please read, understand and accept the following agreement:

This software and its drivers are only available through Arlyn Scales' Web Site at <u>http://www.arlynscales.com</u>. Arlyn Scales doesn't normally provide "Installation Disks". All drivers and software should be downloaded from this site.

This software package is supplied free of charge "as is". Arlyn Scales cannot, and will not offer technical support for the USB Remote Software. It was written simply as a service to our customers.

The actual USB drivers are written and distributed by FTDI or Silicon Labs, the makers of the USB controller chip that we use in our scale indicator. We have included the latest drivers from FTDI in this installation package. Future updates may be downloaded free of charge from their web site at <u>http://www.ftdichip.com</u> or <u>http://www.silabs.com</u>.

The drivers and their authors dictate the system requirements. Arlyn Scales has no control over the update path or future availability of these drivers. Given that the drivers were written elsewhere, we cannot support them to any realistic degree. We have found that the people at FTDI or Silicon Labs are very cooperative with technical issues. For driver related technical issues, we generally have to defer to them.

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