

**MKE-5 & Arlyn UpScale
Scale Indicator**

New Remote Indicator

(Beta)

Instruction Manual



ARLYN SCALES

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END USER LICENSE AGREEMENT (EULA)

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 <http://www.arlynscales.com>. Arlyn Scales doesn't normally provide "Installation Disks". All drivers and software should be downloaded from this site.

This software package is supplied as PAID software and is provided "as is". Arlyn Scales only provides a very limited amount of free support (typically 15 minutes per license) as noted on this website. All additional support is provided only on a paid basis.

The drivers and their authors dictate the system requirements. Arlyn Scales has no control over the update path or future availability of these drivers, Remote Indicator Software or any given software available for this feature. 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.

Arlyn Scales does not warrant, guarantee or make any representations regarding the use, or results of the use of the Software or accompanying materials in terms of correctness, accuracy, reliability, timeliness or otherwise. You assume all responsibility concerning selection of the software, and the ability to achieve the results you intend.

Arlyn does not guarantee that any features presented in this document may be present in the current or future versions of the software. Some features may be removed without notice. Features may also be added that may interfere with other features currently present with the software. Features maybe added without notice.

IN NO EVENT SHALL ARLYN SCALES, RELATED COMPANIES, OR ITS SUPPLIERS ARE LIABLE FOR ANY DAMAGES WHATSOEVER ARISING OUT OF THE USE, OR INABILITY TO USE THIS SOFTWARE, EVEN IF ARLYN SCALES HAS BEEN ADVISED OF THE POSSIBILITIES OF SUCH DAMAGES.

THESE TERMS MAY BE CHANGED WITHOUT NOTICE.

BY INSTALLING THIS SOFTWARE, YOU ACKNOWLEDGE THAT YOU HAVE READ AND AGREE TO BE BOUND BY ALL OF THE TERMS OF THIS AGREEMENT.

1 OVERVIEW

Thank you for purchasing a license to the New Remote Indicator software by Arlyn Scales. This documentation will guide you through the installation process of the software on your PC.

This document will demonstrate the use of the new Arlyn Scales Remote Indicator. You can use this software to remotely monitor the scale weight, send commands to it such as ZERO, TARE, NET or UNIT and even the PRINT key. There is also a data collection function that will capture readings directly into an Excel file. The Excel file can then be viewed after the collection session is complete.

Multiple connections are supported. At the moment, the new Remote Indicator supports Serial Communication (RS232, RS485, etc.) It also supports Virtual Serial Port Emulation where the USB connection to the scale is emulated as a Serial COM port connection. Additionally, the new Remote Indicator supports TCP/IP connectivity for connections with Ethernet or Wi-Fi enabled scales.

1.1 “Beta” Acknowledgment

Remote Indicator is still in the “Beta” stage of development. This means that Arlyn has determined for all intents and purposes, it is ready for release. It has minor bugs and/or may have user experience issues. Therefore, we invite our customers to give us feedback on any issue they might face with the software in good faith, so we may continue to improve it to satisfy our customers’ more immediate needs.

1.2 System Requirements

Before proceeding, please read and understand the chapter entitled “*End User License Agreement*”. 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, RS-232, Wi-Fi or Ethernet connectivity (depending on your scale configuration).
- ❑ An Arlyn Scale Indicator (MKE-5 or Arlyn UpScale Touchscreen Indicator)
- ❑ Full Microsoft Windows XP/Vista/7/8.1/10/11 Support.
- ❑ 10 MB of free hard drive space.

2 LICENSE REQUIRMENTS

The New Remote Indicator comes with a 30-day Trial License. For a perpetual license, please contact our Sales Department at (800) 645-4301 or please email us at sales@arlyn scales.com. You can also contact us using the Online Form Submittal at <https://www.arlyn scales.com/contact-us>.

3 INSTALLING REMOTE INDICATOR SOFTWARE

You can download the New Remote Indicator software from the website (www.arlyn scales.com/software-downloads).

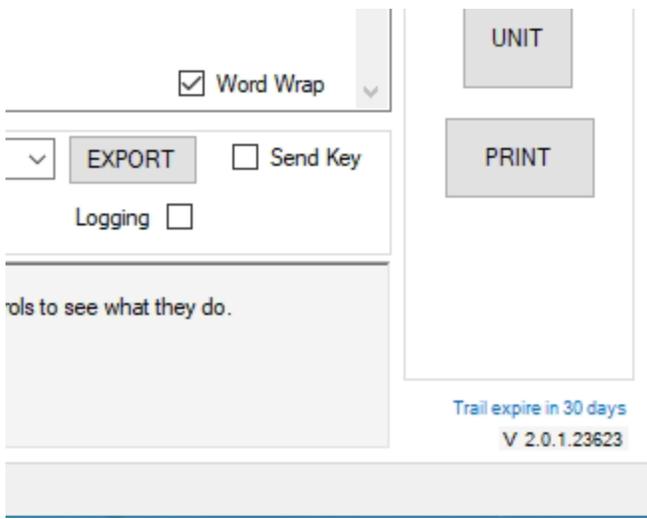
3.1 Download

Download the ArlynRemoteV3.zip file, and extract all the files. Double click the **setup.exe** file to start the install.

- (1) It is recommended to disable your Firewall or Anti-virus software during this install to provide a smooth installation process. If you still choose to have this protection software running, you may get a prompt about QLM (the licensing engine) being untrusted. This is perfectly normal. Please allow the installation to continue.
- (2) Click next until you complete the wizard.
- (3) When installation completes, click on the Remote Indicator icon on your desktop or go to:
Start -> Programs -> Arlyn Scales->Remote Indicator.

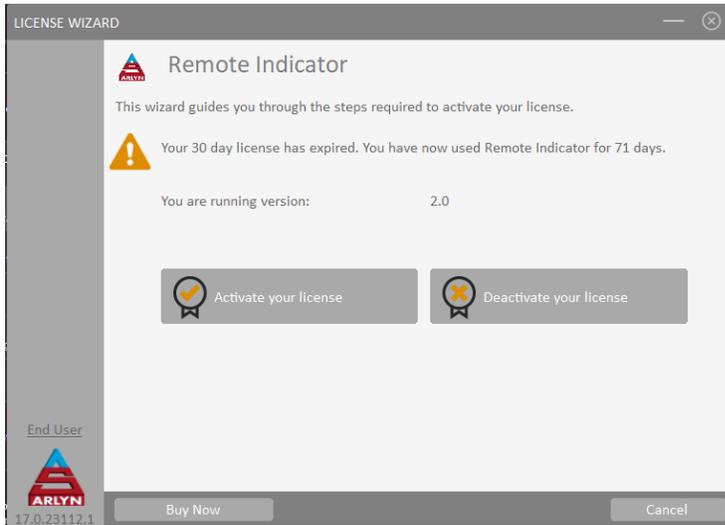
3.2 Trial License Run

Remote Indicator will run for 30 days without limitation. The trial time will be shown on the bottom right of Remote Indicator window:

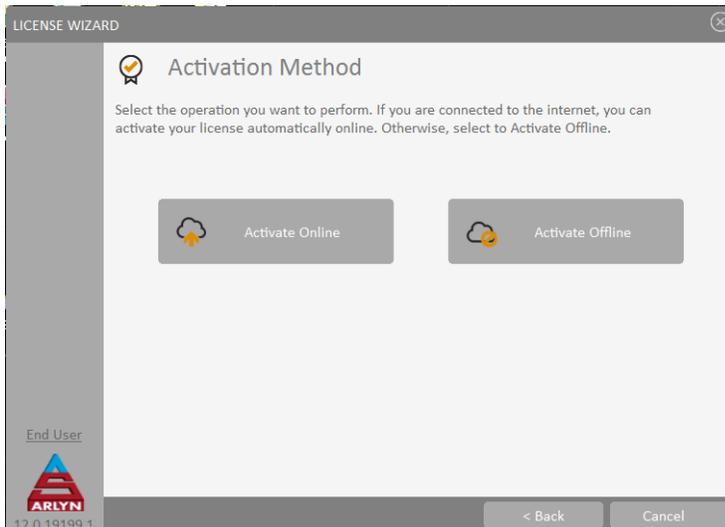


3.3 License Installation

After the trial expires, you will be presented with the Licensing Agent window that notifies you the trial has expired. The following window will prompt you on your screen.



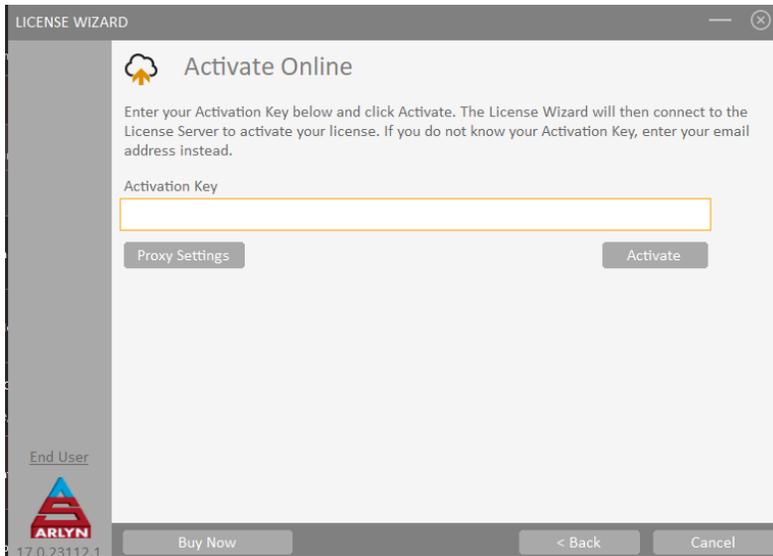
Click on "Activate your license". The follow screen shows below.



There are two methods to activate. If you have internet connection, you can try to perform online activation.

3.3.1 Online Activation

To activate online, press the “Activate Online” button.

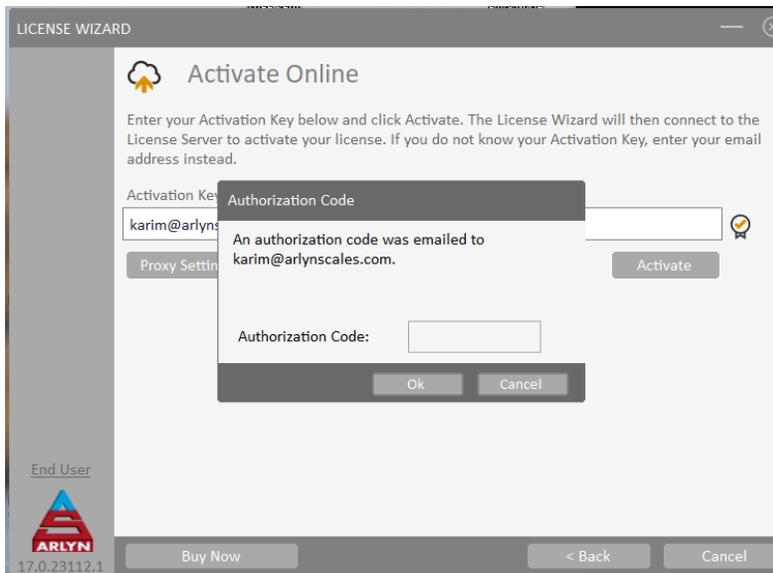


Enter the Activation Key if you have already received one from Arlyn Scales. If you do not have the key, then type in your **registered email address** instead and press “Activate”.

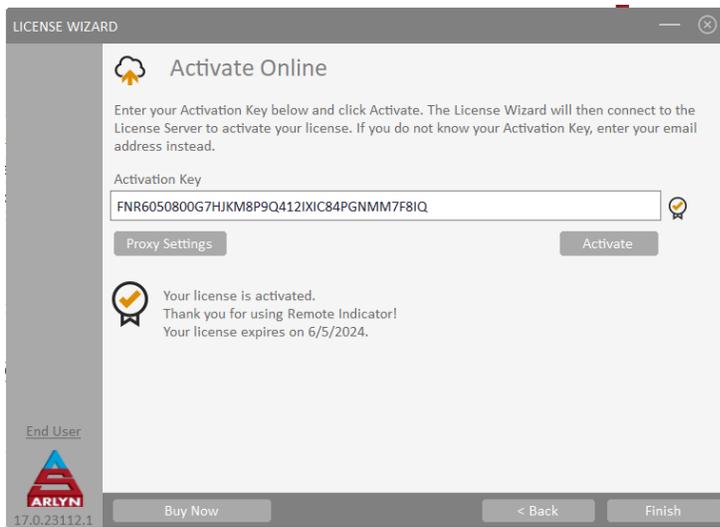
Note: A “registered email address” is the email address used to procure a license from Arlyn Scales. If you try to enter an unregistered email, an error will popup message will show informing you that the email address entered was not found.

If you have not purchased a full license from Arlyn Scales, then please contact Arlyn Scales to purchase a new license. At the time of purchase, inform the sales person the email you would like to use to register the license.

If a registered email address is found on the Activation Server, an authorization code will be sent to the email inbox and a popup will show prompting to enter the code.



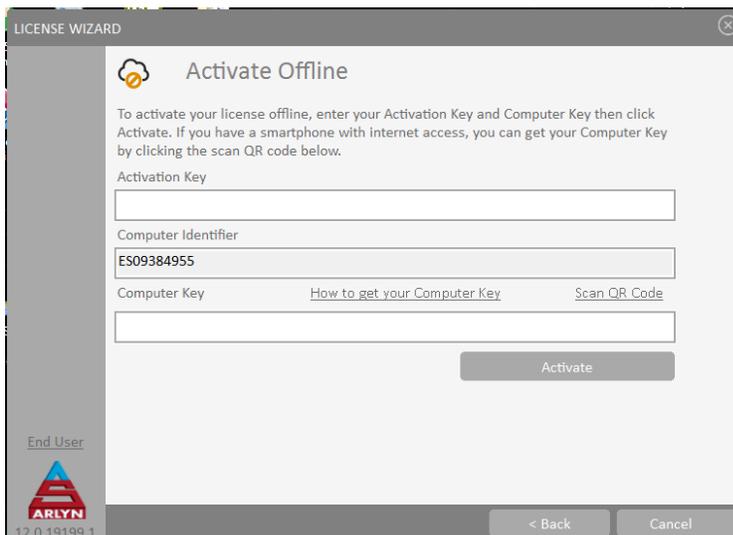
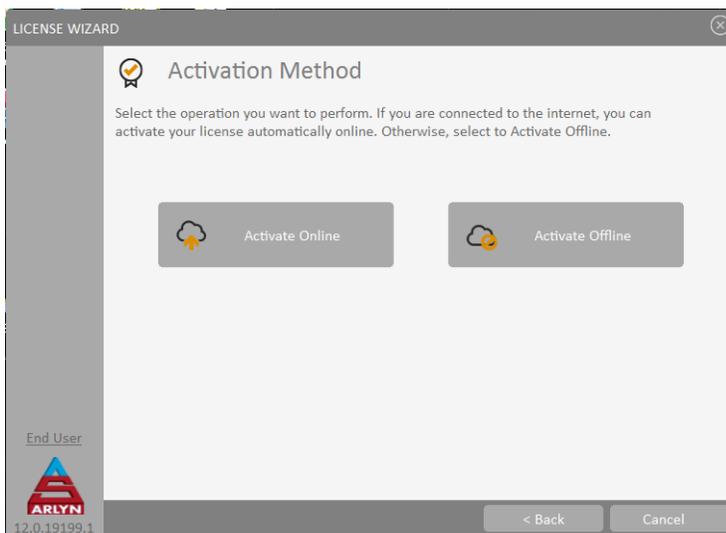
Enter the authorization code that was sent in the email. If the Authorization Code entered is correct, you will get a success message and the expiration date on the License Wizard.



Press “Finish” button to complete the process.

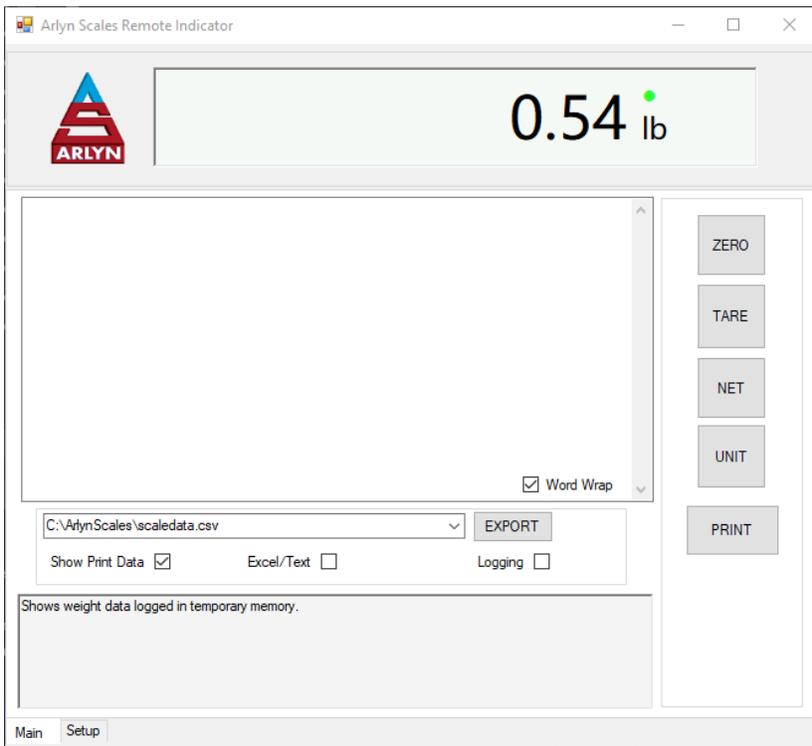
3.3.2 Offline Activation

Click on “Activate Offline” in the Activation Method screen (this is shown as noted in section 3.3 above).



(1) Note down the “Computer Identifier”. This will allow us to generate the key for you when you call us or email us.

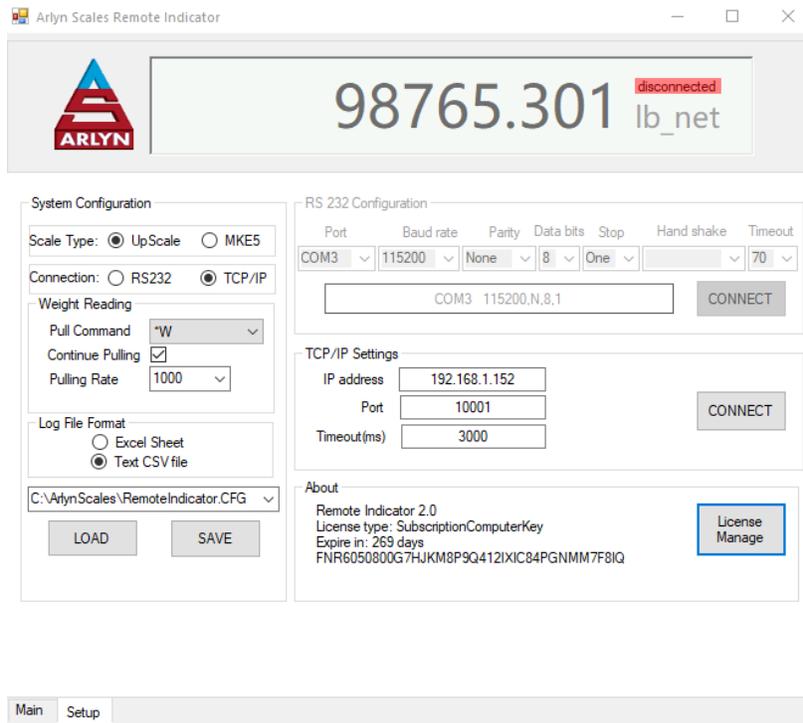
- (2) Once you obtain the key, enter it into the boxes provided and press Activate.
- (3) The New Remote Indicator screen should pop-up as seen below.



Please note that the New Remote Indicator software may not be operational until it is configured to run with your scale.

4 CONFIGURING NEW REMOTE INDICATOR

On the Remote Indicator screen, there will be two tabs at the bottom of the window; **Main** and **Setup**. Click on the Setup tab to enter the Setup screen.



Take a look at the screenshot above and observe the various configuration parameters. Below is an explanation for each section.

4.1 System Configuration

This group of parameters determines the method in which the Remote Indicator will poll data from your scale, pick a logging method if required and the method of connectivity.

- Scale Type** Pick the model of the indicator you want to connect to:
- 1) **MKE-5** Digital Indicator
 - 2) **UpScale** Touchscreen Indicator.
- Connection** Select the method of connection to the scale
- 1) RS-232 – For Serial connections. For USB connections, pick RS-232 as the Remote Indicator will communicate using Virtual COM connection.
 - 2) TCP/IP – For scales equipped with Ethernet or Wi-Fi.
- Weight Reading** Configure how the New Remote Indicator will retrieve weight data from the scale.
- 1) Poll Command – Remote Indicator will use this command to pull weight data from the scale. There are several methods that can be used.
 - a) *None* – Remote Indicator will not issue any command to the scale.
 - b) **W* – Remote Indicator will use the special **W* command to pull weight data from the scale. The scale will output a frame of data that contains all the information required to display weight on the scale properly. By default, this option is selected by default and strongly recommended that it shouldn't be changed.
 - c) **P* – Remote Indicator will use the PRINT command to pull weight data from the scale. The scale will output data using the "Print Frames" configured from the scale.
 - d) Print Streaming – Selecting this option means that Remote Indicator will expect continuous stream of weight data from the scale. It will not send any commands to retrieve data. **[Note: Make sure Continuous Polling is deactivated to avoid conflicting data streams]**
 - 2) Continuous Polling – Check this box Remote Indicator to continuously send the *Poll Command* to the scale to retrieve data at the specific *Polling Rate*. Default is unchecked.
 - 3) Polling Rate – Set the interval (in milliseconds) at which the Remote Indicator will poll data from the scale. Default is set at 300ms.
- Log File Format** Select what type of Logging you would prefer.
- 1) Excel Sheet – Log data into an Excel Sheet selected.
 - 2) Text CSV File – Log data into a .CSV file.
- Configuration File** This file saves all the configuration parameters selected in the Setup Tab. To select another configuration file or load a different one, use the drop-down list to open a file selection dialog – and select SAVE or LOAD appropriately.

4.2 RS-232/USB Configuration

If your scale is equipped with USB Communication (PC Interface) or RS-232 connectivity, then select the "Connection" type to be RS-232 in the System Configuration group. This will enable the RS-232 Configuration Setup Group.

RS 232 Configuration

Port	Baud rate	Parity	Data bits	Stop	Hand shake	Timeout
COM1	115200	None	8	One		70

COM1 115200,N,8,1

CONNECT

Port Set the COM port as determined from the “Device Manage” window in Control Panel of your Windows Operating System.

Baud Rate Set the desired baud rate (speed of transmission). Make sure it matches with the RS-232 settings on your scale. Default is set at 9600. If you are using Remote Indicator for production, make sure the baud rate is set at higher speeds such as 115200, and set the baud rate in the scale to match Remote Indicator settings.

Parity Set the Parity as matched with your scale. Default is set at “None”.

Data Bits Set the Data bits as matched with your scale. Default is set at “8 bits”.

Stop Bits Set the Stop bits as matched with your scale. Default is set at “1 bit”.

Handshake This should be set to “None”.

Time out This sets the time in milliseconds where Remote Indicator will give up retrieving data from your scale due to some communication error. Default is set at “70”

4.3 TCP/IP Configuration

If your scale is equipped with Ethernet or Wi-Fi connectivity, then select TCP/IP option to configure the connection parameters to your scale.

TCP/IP Settings

IP address	192.168.1.157
Port	10001
Timeout(ms)	3000

CONNECT

IP Address Set the IP address of your scale. Refer to your scale’s manual on how to find this information.

Port Set the Port number defined on your scale.

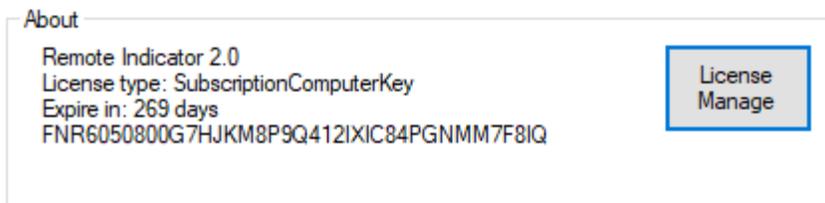
Timeout (ms) The amount of time in milliseconds that Remote Indicator will attempt to connect to the scale before giving up.

4.4 Connecting to your scale

Once you have set your parameters, press the “CONNECT” button to connect to the scale. Sometimes, you may have to restart the program for the connection to work. After you have set your parameters, these will be saved in the designated CFG file. When restarting the Remote Indicator program, it will automatically load these settings and connect to your scale.

4.5 Managing Remote Indicator License

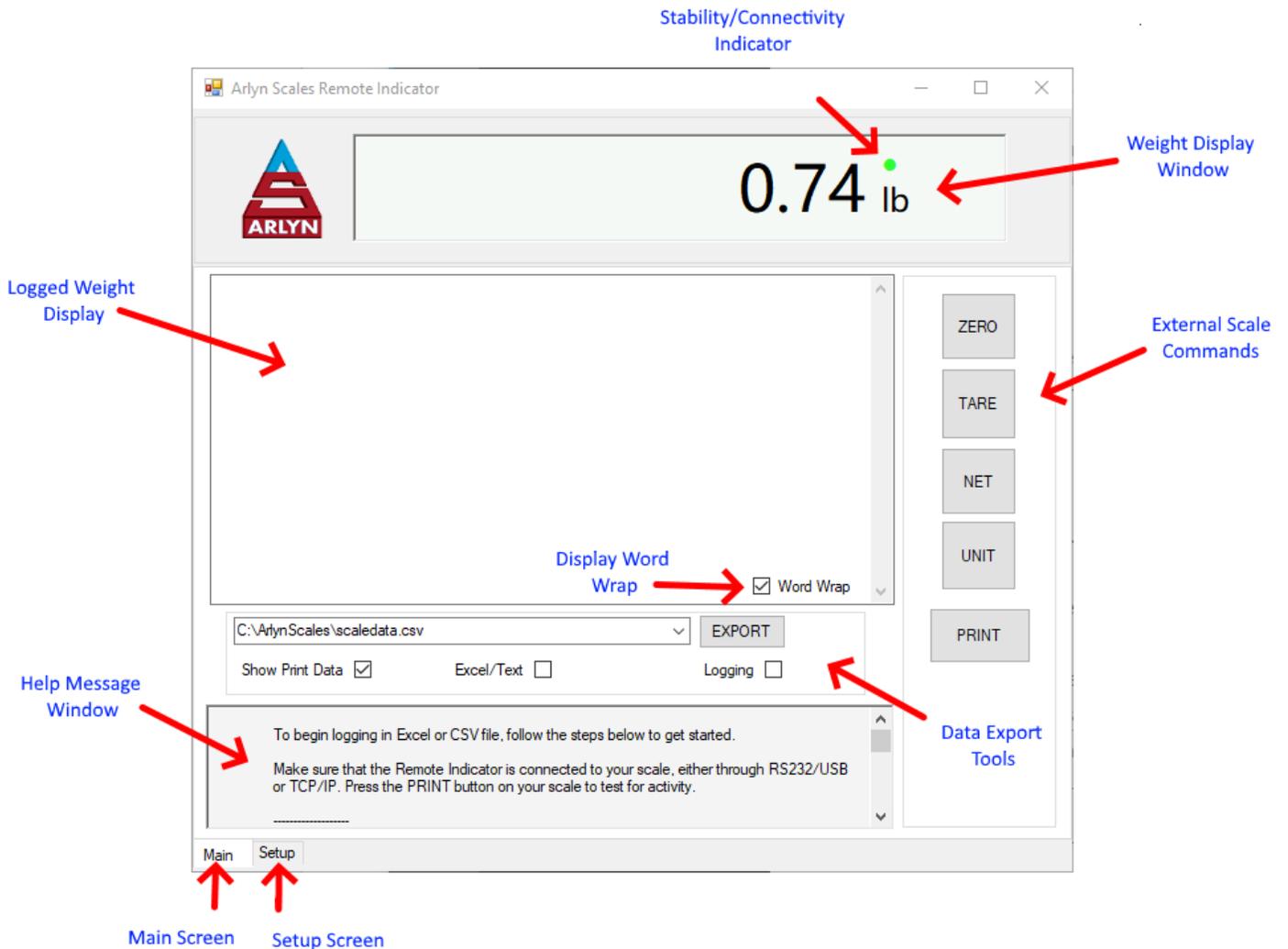
Managing your Remote Indicator License allows you to move your installation from one PC to another or reactivate the same license on the same computer.



Click on the “Manage License” button and you will be presented with the same “License Wizard” seen at the beginning of Section 3. You can proceed to reactivate your license or deactivate the license on the current PC.

5 OPERATIONAL OVERVIEW

This section will explain all the parts of the Main screen. You can also use the pointer on your mouse to hover of a control and read the tips provided in the message window.



Weight Display Window

Displays weight and unit retrieved from the scale.

Stability/Connectivity Indicator

Shows if the current weight is stable. If the weight is not moving and this indicator is “red” then it means the remote indicator is disconnected.

External Scale Commands

Send main commands to the scale:

ZERO – Zeroes the platform.

TARE – Tares any weight on the platform.
NET – Switches the weight mode between “net” and “gross”.
UNIT – Switches the current display unit.

- Help Message Window** Displays tips as you let your mouse pointer hover over certain controls on the screen.
- Main Screen Tab** Displays the Main screen tab.
- Setup Screen Tab** Displays the Setup screen tab.
- Data Export Tools** Configure Remote Indicator to export logged data to Excel Sheet or .CSV file.
- Logged Weight** Only the weight displayed on this window will be exported out. If this window is empty then no weight has been logged. See the section on Data Logging to properly configure Remote Indicator for weight data.
- Display Word Wrap** Word Wrap the display data as shown.

6 DATA COLLECTION & EXPORT

The New Remote Indicator has the ability to export data incoming data. The data can either be logged in a CSV file or an Excel File. Please note that while data logging is taking place, you should not attempt to open the file that is being used for logging data.

In the Setup screen, under the “Log File Format” group, select whether you want to log data in an Excel sheet or .CSV file. Essentially both of these files can be opened by Excel but it’s a matter of preference depending on your requirements.

On the main screen, look at the Data Export Tools group.



There are two type of data logging.

- On Print Logging** Log data on demand – by pressing the PRINT button on the scale. Remote Indicator will accept this data and store it in memory. After you are done with your session, you can choose to export all of this data into your file.
- Continuous Logging** Remote Indicator will continuously collect data from the scale based on the Print Streaming configuration. The time period between these weight data can be configured in the Print Streaming configuration screen. Refer to your scale manual on how to do this.

Make sure that the Remote Indicator is connected to your scale, either through RS232/USB or TCP/IP. Press the PRINT button on your scale to test for activity.

6.1 On PRINT Logging

Configure the scale for on-demand logging only for selected weights.

- 1) Put a check on "Excel/Text" checkbox.
- 2) Put a check on "Logging" checkbox.
- 3) Press the PRINT button on the scale's Display Indicator.
- 4) Each time a PRINT button is pressed, a new weight is shown on the Print Data Screen.
- 5) Once ready, press the "Export" button to export the data logged into the Excel file selected.
- 6) The data will be appended. Any previous data will not be overwritten.

Note: Only the data appearing on the "Print Data" screen will be exported. If there is no data shown on this screen, then nothing will be exported.

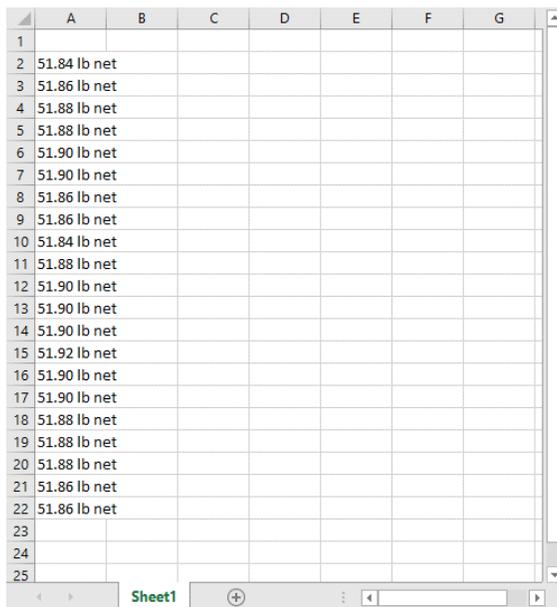
WARNING! Monitor the size of the Excel file. If it becomes too large, there will be a noticeable performance degradation over time.

6.2 Continuous Logging

Configure the scale to continuously log data.

- 1) On your scale indicator, follow instructions on the (Arlyn UpScale/MKE-5) User Manual to turn on PRINT STREAMING. The location of the Print Streaming feature varies depending on which communication option you have.
- 2) Do steps (1) and (2) in ON PRINT LOGGING to setup Logging.
- 3) Press the PRINT button the actual scale's Display Indicator to start the streaming. Weight data should start appearing on the "Print Data" screen. Once the data is collected, press the "Export" button to transfer the data to the selected Excel file.
- 4) The data will be appended to the previous data. The previous data will not be overwritten.

After the logging is completed, proceed to the folder as noted in the dropdown selection box and open the file to view the logged data.



	A	B	C	D	E	F	G
1							
2	51.84 lb net						
3	51.86 lb net						
4	51.88 lb net						
5	51.88 lb net						
6	51.90 lb net						
7	51.90 lb net						
8	51.86 lb net						
9	51.86 lb net						
10	51.84 lb net						
11	51.88 lb net						
12	51.90 lb net						
13	51.90 lb net						
14	51.90 lb net						
15	51.92 lb net						
16	51.90 lb net						
17	51.90 lb net						
18	51.88 lb net						
19	51.88 lb net						
20	51.88 lb net						
21	51.86 lb net						
22	51.86 lb net						
23							
24							
25							

7 SENDING KEY WEDGED WEIGHTS TO OTHER APPLICATIONS

The New Remote Indicator is capable of sending weight information to any location on your screen where the current focus or cursor resides. This allows for weight to be entered automatically in a text field in any application (even web pages).

- 1) To enable this feature, put a check on the “Send Key” checkbox in the Data Tools Group.
- 2) Then place your cursor on any application such as Notepad or Microsoft Word.
- 3) Now press the PRINT key on the display indicator to send the weight frame to the application. [*Note: Press the PRINT key on the physical scale indicator, and not the “Print” button on the Remote Indicator.*]
- 4) To turn off this feature, uncheck the “Send Key” feature.

WARNINGS

- 1) If you place the cursor anywhere on your screen and then proceed to press the “Print” button on the Remote Indicator screen, the focus will shift to Remote Indicator and the weights will be entered into the log window.
- 2) Be careful setting up “Print Streaming” on your scale and using the “Send Key” feature. Setting up Print Streaming will continuously stream weight to wherever your cursor is located. This might result into your application crashing or even crashing your PC.

8 USING RS232 CAPABLE SCALES WITH THIS SOFTWARE

Any Arlyn scale with an RS-232 option installed can communicate with this software. This gives RS-232 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.
- ❑ RS-232 scales and USB scales cannot be used together.
- ❑ No special drivers are required for the RS-232 interface. In fact, if you never plan to attach a USB scale to the system you may disregard installing USB drivers.
- ❑ The RS-232 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.
- ❑ 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 ‘-’ sign 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 cannot use the ASCII characters ‘/’ or ‘:’, and if so, must be located after the time and date.