ScaleCore 2 Database

For Use With MSI-7300, MSI-3460, MSI-4260 and MSI-8000 and Helicopter Load Weighing Systems

Operator's Manual





162314

Contents

| 1.0 | Introduction | 1 |
|-----|--|---------|
| | 1.1 Overview | 1 |
| 2.0 | Installation | 2 |
| | 2.1 System Requirements | 2 |
| 3.0 | Database Interface | 2 |
| | 3.1 JDBC Driver Installation | 2 |
| 4.0 | Scale Device Communications | 3 |
| | 4.1 Making a connection4.2 Operation | 3 5 |
| 5.0 | Application – Barcode Label Printer | 5 |
| | 5.1 MySQL Server Setup | 5 .5 |
| | 5.3 MySQL ODBC Connection 5.3.1 TekLynx Label Matrix Setup | 6 .8 |
| 6.0 | Troubleshooting | 18 |
| 7.0 | Acronyms and Glossary of Terms | 18 |



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1.0 Introduction

Welcome to the ScaleCore 2 Database (*Sc2Db*) software application by <u>Measurement Systems International (MSI</u>). This application is designed to work with ScaleCore based products designed by MSI. The ScaleCore family products include:

- MSI-7300 Dyna-Link 2
- MSI-3460 Challenger 3
- MSI-4260 Port-A-Weigh
- MSI-8000 RF Remote Display
- Helicopter Load Weighing Systems

Additional products and capabilities are regularly being developed. Please check our website for more details or contact MSI.

This manual is intended to provide complete details of the *Sc2Db* application from installation and quick start to solution implementation.

1.1 Overview

Sc2Db is a software application to write weight data to an SQL database server. With this program, a range of solutions are handled including:

- Continuous access to weigh information provided by any MSI ScaleCore family products.
- Weigh data integration to all MRP, ERP, CRM systems and solutions.

Links to advanced printing and product tracking solutions including barcode labeling systems.

The *Sc2Db* application supports interface to SQL database servers that have available Java JDBC drivers, including:

- Microsoft SQL Server^{®1}
- Oracle^{®2} MySQLTM Server (<u>http://www.mysql.com/</u>)

Database interfaces are accomplished via Java JDBC. For additional database support contact MSI.



Figure 1-1. Quick Start - Connecting to the Network

¹ Microsoft, Encarta, MSN, and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

² Oracle is a registered trademark of Oracle and/or its affiliates.

2.0 Installation

The *Sc2Db* is distributed in the default configuration for Microsoft Windows[®] operating system.

When using a single compressed (.zip) file distribution, unzip the program to a location on the local computer and run the application. The location of the executable is referenced as the *installation folder* throughout this operator's manual. There is no further installation required for the application.

2.1 System Requirements

Following are the typical system requirements to run the Sc2Db application. Specifications are subject to change without notice.

Typical

Windows XP/Vista/7[®] Operating System

Windows[®] Embedded

Disk Usage: <200MB

Display: 800x600 or greater

Other Operating Systems:

Additional operating systems may be supported with the restriction of requiring TCP/IP device communications exclusively (no RS-232 serial communications are supported). Please contact MSI for details.

3.0 Database Interface

The Sc2Db application uses Java JDBC technology to connect to a database. The application comes with support for \underline{MySQL} and Microsoft SQL. Any JDBC driver can be loaded and configured. The following procedure describes this process.

3.1 JDBC Driver Installation

Under the installation folder, is a folder called lib. Place the JDBC driver JAR (Java Archive) file in this folder.

3.2 JDBC Driver Configuration

Under the *installation folder*, is a file called **db.properties**, Open this with a text editor and complete the JDBC configuration by setting the user name, password, driver class, and connection URL. For complete details refer to the JDBC driver documentation.

4.0 Scale Device Communications

Sc2Db supports interfacing to MSI ScaleCore products from serial (RS-232) or TCP/IP sockets via Ethernet (802.3) or WiFi (802.11). The connection depends on the available interfaces of the particular ScaleCore product being used. Please refer to your specific device manual for more details on the interface capabilities.

4.1 Making a connection

The easiest way to connect to the ScaleCore device is the auto detect feature for serial interfaces.

- 1. Select File.
- 2. Select *Auto Detect Serial. Sc2Db* will automatically scan all available serial ports for any attached ScaleCore devices. When the scan is complete, *Sc2Db* will display the detected devices (see Figure 4-1).

| device is n | scaleCore device ot listed, close th | nis dialog, check th | e device and press | n the scan again |
|-------------|---|----------------------|--------------------|------------------|
| Port | Baud | Product | Device ID | Message |
| COM1 | 9600 | Dyna-Link 2 | 00 | |
| COM2 | 38400 | DSC | 00 | |
| COM3 | 9600 | Challenger 3 | 00 | |
| COM4 | | | | No response |
| COM5 | | | | No response |
| COM6 | - | | | No response |
| COM7 | | | | No response |

Figure 4-1. Auto Detect Serial Results Dialog

- 3. From the results, select the device required.
- 4. Press *Open* to begin communicating with the device.

If your device is not found, close the dialog, check the device power and data connection to the computer, then run the scan again.

To manually connect to a ScaleCore product:

- 1. Select File.
- 2. Select **Open Communications**. *Sc2Db* will display the connection parameters dialog. This dialog allows you to manually enter either serial (RS-232) or IP host address and port for the device connection.

Typical serial connection parameters are shown in Figure 4-2.

| Name | mp2_comm_default |
|-------|--------------------------------|
| Туре | RS232 👻 |
| Autor | natically connect on startup 🦳 |
| | |
| | Port Name COM1 - |
| | Baud Rate 9600 👻 |
| | Parity None 👻 |
| | Data Bits 8 💌 |
| | Stop Bits 1 |
| FI | ow Control None 👻 |
| | |

Figure 4-2. Communications Dialog (RS-232)

- 1. Select the serial port name of the local computer port that the ScaleCore device is connected to.
- 2. Press OK to open the connection.
- 3. Ethernet and Wi-Fi (802.11) communications require the IP address and port number of the ScaleCore device. The address is specific to the device installation. The port is typically 2101.

| Name | mp2_comm_ | default | | |
|-------|----------------|--------------|--------|--|
| Туре | TCPIP - | | | |
| Autor | natically conn | ect on start | up 🦳 | |
| | | | | |
| | | | | |
| | | | | |
| Host | | | ····] | |
| Port | | | | |
| | | <u> </u> | | |
| | | | | |
| | | | | |
| | | | | |

Figure 4-3. Communications Dialog (TCP/IP)

Note The last used connection parameters will be automatically filled in for convenience.

4.2 **Operation**

After the application connects to the MSI scale device, it will show a table with all sensors similar to Figure 4-4.

| WEIGHT | WGTSTRING | MODE | UNITS | CAPTURED |
|--------|-------------------------------------|--|---|--|
| 2,158 | 2158 | Gross | LB | 2014-03-12 16:53:56 |
| 0 | | Error | | 2014-03-12 16:53:56 |
| 0 | | Error | | 2014-03-12 16:53:56 |
| 0 | | Error | 1,2222 | 2014-03-12 16:53:56 |
| 0 | | Error | | 2014-03-12 16:53:56 |
| | | | | |
| | WEIGHT 2,158 0 0 0 0 | WEIGHT WGTSTRING 2,158 2158 0 0 0 0 0 0 | WEIGHTWGTSTRINGMODE2,1582158Gross0Error0Error0Error0Error | WEIGHT WGTSTRING MODE UNITS 2,158 2158 Gross LB 0 Error 0 Error 0 Error 0 Error 0 Error 0 Error |

Figure 4-4. Sc2Db Main Display

From this point, the application will maintain the connection to the device. If the device power cycles, the program will automatically re-establish connection.

During normal operation, the application must be left running, but it can be minimized to reduce screen clutter.

5.0 Application – Barcode Label Printer

For this application, the information saved via the *Sc2Db* application is used as a source for <u>TekLynx Label Matrix</u> <u>PowerPro</u> Edition to print barcode labels.

Required Equipment:

- Computer Running Windows 7 Pro
- Zebra_GK420d Printer
- <u>MySQL</u> Database Server version 5.6 (or compatible)
- Label Matrix 2012 PowerPro Edition from TekLynx
- ScaleCore 2 Database Application Software
- MSI_ScaleCore Family Device connected to computer via RS-232 or TCP/IP

5.1 MySQL Server Setup

This section describes the setup and configuration of a MySQL database server for a label printing application.

5.1.1 Installation

This application requires a MySQL server installation with 32-bit ODBC driver. A complete setup of a MySQL server installation is beyond the scope of this document. For details about setting up the database, refer to the MySQL documentation.

5.2 Database Setup

The *Sc2Db* application requires a single schema named *scalecoreprinter* with a single table. The "create statement" for the table is shown below:

```
CREATE TABLE `scprint` (
`id` int(10) unsigned NOT NULL,
`weight` double(12,6) NOT NULL,
`weightstring` varchar(12) NOT NULL,
`weightstring` varchar(8) NOT NULL,
`units` varchar(8) NOT NULL,
`captureTimeStamp` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE
CURRENT_TIMESTAMP,
PRIMARY KEY (`id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

Figure 5-1 shows the database as viewed from MySQL Workbench 6.0 CE.

| 1 * SELECT * FROM scalecoreprinter.scprint; Image: Select * From scalecoreprint; Image: Select * From scalecoreprinter.scprint; Image: Select * Selecoreprinter.scprint; Image: Selecoreprinter.scprint; Image: Selecoreprinter.scprint; Image: Selecoreprinter.scprinter.scprinter.scprinter.scprinter.scprinter.scprinter.scprinter.scp | 0 | | Seprint | | 00 | 3 🛷 | Q 1 P | | | |
|--|-----|------------|----------|--------------|----------|----------|------------------------|--------------------|--------|--|
| Imit Ser Fitter Imit Ser Fitter Ser Fitter Wisp Call Content: 13 1d weight weights/mg mode units capture TimeStamp Call 2003/000 Call 2003/000 Call 2003/000 Enror 2014/03-121 16/07-46 2 0.000000 Enror 2014/03-121 16/07-46 3 0.000000 Enror 2014/03-121 16/07-46 4 0.00000 Enror 2014/03-121 16/07-46 4 0.00000 Enror 2014/03-121 16/07-46 4 0.00000 Enror 2014/03-121 16/07-46 2014/03-12 16/07-46 | | 1 • | SELECT | • FROM scale | coreprin | ter.scp | rint; | | | |
| Insult Ser Filter Edit: Image: Contract Stamp Image: Contract Stamp id weight weightstring mode units capture Time Stamp 0 0.000000 Error 2014-03-12 16:07.46 1 0.000000 Error 2014-03-12 16:07.46 2 0.000000 Error 2014-03-12 16:07.46 3 0.000000 Error 2014-03-12 16:07.46 4 0.000000 Error 2014-03-12 16:07.46 2 0.000000 Error 2014-03-12 16:07.46 4 0.000000 Error 2014-03-12 16:07.46 2 0.000000 Error 2014-03-12 16:07.46 2 0.000000 Error 2014-03-12 16:07.46 2 0.000000 Error | | | | | | | | | | |
| Set File: Ind Call Control Expontion Call Control Expontion Call C | ē | | | | m | | | 2 | | |
| id weight weightstring mode units capture Time Stamp 0 0.000000 Error 2014-03-12 16:07:46 1 0.000000 Error 2014-03-12 16:07:46 2 0.000000 Error 2014-03-12 16:07:46 3 0.000000 Error 2014-03-12 16:07:46 4 0.000000 Error 2014-03-12 16:07:46 parse maxs maxs maxs maxs maxs | e54 | it Set Fit | uc. | | 1 | 👌 Edit 👔 | 2 to the Export/Import | Wrap Cel Content 1 | | |
| 0 0.000000 Emor 2014-03-12 16:07:46 1 0.000000 Emor 2014-03-12 16:07:46 2 0.000000 Emor 2014-03-12 16:07:46 3 0.000000 Emor 2014-03-12 16:07:46 4 0.000000 Emor 2014-03-12 16:07:46 2030 EXX8 EXX8 EXX8 EXX8 EXX8 | | id | weight | weightstring | mode | unts | capture Time Stamp | | | |
| 1 0.000000 Emor 2014-03-12 16 07-46 2 0.000000 Emor 2014-03-12 16 07-46 3 0.000000 Emor 2014-03-12 16 07-46 4 0.000000 Emor 2014-03-12 16 07-46 5 2020 2020 2020 2020 2020 | | 0 | 0.000000 | | Error | _ | 2014-03-12 16:07:46 | | | |
| 2 0.000000 Emor 2014-03-12 16 07.46 3 0.000000 Emor 2014-03-12 16 07.46 4 0.000000 Emor 2014-03-12 16 07.46 4 0.000000 Emor 2014-03-12 16 07.46 5 2038 EXX8 EXX8 EXX8 EXX8 | | 1 | 0.000000 | - | Error | - | 2014-03-12 16:07:46 | | | |
| 3 0.000000 Emor 2014-03-12 16 07-46 4 0.000000 Emor 2014-03-12 16 07-46 a 0.000000 Emor 2014-03-12 16 07-46 a 0.000000 Emor 2014-03-12 16 07-46 a 0.00000 Emor 2014-03-12 16 07-46 a 0.00000 Emor 2014-03-12 16 07-46 b 0.0000 Emor 2014-03-12 16 07-46 b 0.0000 Emor 2014-03-12 16 07-46 b 0.0000 Emor 2015/8 | | 2 | 0.000000 | - | Error | - | 2014-03-12 16:07:46 | | | |
| 4 0.000000 — Enter — 2014-03-12 16-07-46 2003 2003 2003 2003 2003 2003 | | 3 | 0.000000 | | Error | | 2014-03-12 16:07:46 | | | |
| | | 4 | 0.000000 | | Error | - | 2014-03-12 16:07:46 | | | |
| | | 12211 | E255 | HILL | PERCE | PECKE | 1000 | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | ict | print 1 | × | | | | | | Apply. | |

Figure 5-1. MySQL Workbench 6.0 CE

5.3 MySQL ODBC Connection

The Label Matrix 2012 PowerPro software requires an ODBC database connection. The following steps should help in configuring MySQL ODBC connection. For complete details and additional support, please see the MySQL documentation.

- 1. Start the ODBC Data Source Administrator.
 - Access Control Panel
 - Select System and Security followed by Administrative Tools
 - Select the shortcut for Data Sources (ODBC)
 - For 64-bit systems, you may have to access: C:\Windows\SysWOW64\odbcad32.exe
 - A dialog similar to Figure 5-2 should display.

| ser DSN | System DSN | File DSN | Drivers | Tracing | Connection P | ooling About | |
|-------------------|-----------------------------|--|--------------------------------------|----------------------------|--------------------------------------|---------------------------|--|
| User Data | ser Data Sources: | | | | | | |
| Name | | Driver | | | | Add | |
| dBASE Excel Fi | Files les | Microsoft Access dBASE Driver (*.dbf, *.ndx Microsoft Excel Driver (*.ds, *.dsx, *.dsm, *.x | | | | Remove | |
| | | | | | | | |
| • | | m | | | • | | |
| | An ODBC Us the indicated | er data sour data provid be used on | ce stores er. A Use the currer | information er data sou | n about how to irce is only visit | connect to ble to you, | |

Figure 5-2. ODBC Data Screen

- 2. Select the *System DSN* tab.
- 3. Click the Add... button.

| Create New Data Source | | × |
|------------------------|--|-----------------------|
| - (2) | Select a driver for which you want to set up a | data source. |
| | Microsoft Text-Treiber (".bd; ".csv) Microsoft Visual FoxPro Driver Microsoft Visual FoxPro-Treiber MySQL ODBC 5.2 ANSI Driver MySQL ODBC 5.2 Unicode Driver SQL Server | € 1 5 € € |
| | SQL Server Native Client 10.0 | 2 - |
| | < Back Finish | Cancel |

Figure 5-3. Create New data Source

4. In the *Create New Data Source* dialog, scroll down to select *MySQL ODBC 5.2 ANSI Driver* (or equivalent). See Figure 5-3.

| nnector/ODB | с | | - |
|----------------------|----------------------|----------------|------|
| Connection Parameter | s | | |
| Data Source Name: | MSI Scale Data Sour | ce | |
| Description: | Database Link to Sca | ale Weight Dai | ta |
| TCP/IP Server: | 127.0.0.1 | Port: | 3306 |
| Named Pipe: | | | |
| User: | username | | |
| Password: | •••• | | |
| Database: | scalecoreprinter | • | Test |

Figure 5-4. MySQL Connector/ODBC

- 5. Enter the connection parameters in the next dialog for the MySQL database server (see Figure 5-4).
- 6. Click the Test button and confirm the test result shows *Connection Successful*.
- 7. Click OK on the ODBC Data Source Administrator to close this dialog.

5.3.1 TekLynx Label Matrix Setup

1. Start Label Matrix 2012 PowerPro Edition.



Figure 5-5. Label Matrix 2012 PowerPro

2. Start the New Label Wizard (automatically).

3. In the New Label Wizard, select the User information obtained from databases checkbox.



Figure 5-6. New Label Wizard

4. Press the Add... button.

| LABEL MATRIX 2012 PowerPro | | | |
|----------------------------------|--------------------|---|--|
| | @ 2 5 6 8 9 | | |
| (W) · ZDesigner GK420d on USB001 | | | |
| | New Label Wizard | | |
| | | From which databases will you use information? Dick the Add bation to add a database. You may continue to add database files that will be used with the label design. If you make a state in the two button. It wo classbase are related, be use to add the bokup' database flae states each the eccode purchases though be used with the intermediate states each the eccode purchase states information. It wo classbase are related, be use to add the bokup' database flae states each the eccode purchases though be used before the database flae has the outcome address information. Name Location Fields Records AddRemove Melp Keak, Next>> | |

Figure 5-7. New Label Wizard Add Button

5. Select Advanced Setup.

| LABEL MATRIX 2012 PowerPro | | | |
|----------------------------------|---------------------|--|--|
| 0 5 0 0 0 0 X h | B. 7 5 8 8 9 9 | | |
| (W) - ZDesigner GK420d on USB001 | | | |
| | New Label Wizard | 8 | |
| | Add Database Wizard | | |
| | | The database wixed allows you to set up you label design so i reads information from a database file al print time. LABEL MATRIX 2012 PowerPo needs to know the name of the file notewhere the information from, the type of file it is more advanced database user, you can be added database the set of the file notewhere the information from, the type to use and half. From the advanced database user, you can be added database the set of the file notewhere the information from the type to use an earning with ODEC and SQL, set up LABEL MATRIX to use a specific driver and SQL takements. Moreal Setup - basic database result A dvanced Setup - use ODEC setup. SQL select statements, or password protected database files. Help C(Reck Next) Cancel | |

Figure 5-8. New Label Wizard Advanced Setup

- 6. Select the following checkboxes:
 - Select an OLE DB Provider
 - Provide a User Name and Password
 - Customize SQL Select Statement



Figure 5-9. New Label Wizard Customize SQL Select Statement

7. Select Microsoft OLE DB Provider for ODBC Drivers.

| CLABEL MATRIX 2012 PowerPro File Tools Window Trial Help | ©.75 8 8 8 8 ■ | |
|--|--|--|
| (W) - 2Designer GK420d on USB001 | | |
| | New Label Wizard | |
| | Add Database Wizard | |
| | Select an OLE DB provide: Microsoft Jef 4.0 QLE DB Provide: Microsoft Jef 2.0 Provide: | |

Figure 5-10. New Label Wizard OLE DB Provider for ODBC Drivers

8. Select the configured ODBC Driver.

| CABEL MATRIX 2012 PowerPro File Tools Window Trial Help File Fools Quarter Annual Help File Fool Quarter Annual Help Fool | New Label Wizard | |
|---|---|--|
| | Add Database Wixard Image: Control of the select button to use OBC's interface to add a new database or to relect the data source inquired for one file based data sources such as SQL Server). Image: Control of the select button to use OBC's interface to add a new database or to relect the data source inquired for one file based data sources such as SQL Server). Image: Control of the select button to use OBC's interface to add a new database or to relect the data source inquired for one file based data sources such as SQL Server). Image: Control of the select button to the based data source is used to a source is used as the total source of the data source is used as the total source of the data source of the data source is used to a new database of the data source is used as the total source of the data | |

Figure 5-11. New Label Wizard ODBC Driver

9. Enter an empty (existing) text or csv file.

11

10. Enter the Username and Password in the dialog.

| LABEL MATRIX 2012 PowerPro File Tools Window Trial Help | | | |
|--|--|--|---|
| | 5 🗃 BY ,0 0 🥅 | | |
| (W) - ZDesigner GK420d on US8001 | | | |
| NewL | abel Wizard | 12 | |
| Add D | atabase Wizard | | 3 |
| | The first theorem of the second secon | adding a database is to decide which d. You can other type in the database path and extension, or press the FBe ci the database using the open datage. dummy.crv stills have security built into them. When user will need a user name and a password per in the user name and password here. username common security built into them. When username and password here. common security built into them. When we can be a security built into them. When username and password here. common security built into them. When common security built into them. When username and password here. common security built into them. When common security built into them. When username and password here. common security built into them. When common securi | ī |

Figure 5-12. New Label Wizard Username and Password Dialog

11. Select SQL Builder and use the dialog to configure your database selection. By default, it will select all rows.

| Spritac SELECT SELECT SELECT SELECT FROM chaldes [WHERE creact conditions] [ORDER 81' conditions] [ASCI DESC]] WHERE | V · · · · · · · · · · · · · · · · · · · |
|--|---|
| SOL takenert preview SELECT * FROM soppink ORDER BY M ORDER BY V | Add search condition here. |
| | Help (Cancel |

Figure 5-13. New Label Wizard SQL Builder

12. Verify the select statement.

| LABEL MATRIX 2012 PowerPro | | |
|----------------------------------|--|--|
| | 1 G 🗃 🕼 🖉 🦉 🥅 | |
| (W) - ZDesigner GK420d on USB001 | | |
| New | Label Wittard | |
| Add | Database Wizard | |
| | Type in your SQL statement here. Use CTRL Enter to start a new line. | |
| | | |
| | SQL Builde | |
| | | |

Figure 5-14. New Wizard Label Select Statement

- 13. Configure the fields for the label setup.
 - Enter the min/max length for each field (see Figure 5-15 for recommended values).

| LABEL MATRIX 2012 PowerPro | | | | | |
|---------------------------------|--|--|--|----------------------------------|--|
| The Tools Window That Help | | | | | |
| 0 W1-2Designer 6K420d on US8001 | 4 6 4 <i>P P</i> E | | | | |
| (1994) | abad Wiraud | | | [[[]] | |
| Add | Database Wizard | | | | |
| | Records A Below are can chang selecting 1 Name | Analyzed: 5 a lat of the fields that have been to ge the sample value or the max leng the field and pressing the Properties Sample | und in each tr th of any of th button. Type Min | ecord. You e fields by Max | |
| | Example a second | ing Enor Enor ImeStamp 03/11/2014 15:37:54 | N 1 N 1 P 1 UL 1 P 1 UL 1 NP 19 (f | Properties | |
| | | | | | |
| | | | | | |

Figure 5-15. New Label Wizard Length

14. Select Keyed Access, Primary Key to always take data from the desired scale sensor.



Figure 5-16. New Wizard Label Keyed Access

15. Select Constant.

| LABEL MATRIX 2012 PowerPro File Tools Window Trial Help | | 0 8 2 |
|--|---|--------------------------------------|
| | | |
| (W) - ZD esigner GK420d on USB001 | | |
| | New Label Wizard | x i |
| | Add Database Wizard | |
| | Finany Key For which origin do you with to receive the key Constant - The key will develop be the same Constant - The key will be reflected to you Constant - The key will be reflected you </th <th>/? be in the nother stached</th> | /? be in the nother stached |

Figure 5-17. New Label Wizard Constant Primary Key

16. In the Value text box, enter the scale sensor id (typically 0 for single load cell scales, refer to your scale device

operator's manual for more information).

| | [B] 우 두 8 8 9 1 | | | | |
|----------------------------------|---|--|--|----|--|
| (W) · 2Designer GK420d on USB001 | | | | | |
| | New Label Wizard | | | 13 | |
| | Add Database Wizard | | | | |
| | A CONTRACTOR OF | Primary Key Listed below is a list of all the fields in must select one of these fields as you | the database. You # "key" field. | | |
| | | Name Sample | Type Min | | |
| | | weight 0 weightitring Error units captureTimeStamp 03/11/2014 15 | N 1 P 1 UL 1 P 1 37:54 NP 19 | | |
| | | | | | |
| | | Enter the constant key below. | | | |
| | | Veult U Heb <<< Back 1 | Nest >> Can | of | |
| | | (Court) | | | |

Figure 5-18. New Label Wizard Sensor ID

17. Enter a name and a description (optional) for this database for reference.



Figure 5-19. New Label Wizard Name and Description

18. Select the newly entered database in the list.

| (W) - ZD esigner GK420d on USB001 | [일 + 나 B 일 의 | 8 | |
|-----------------------------------|---------------------------|--|---|
| | New Label Wizard | | |
| | | From which databases will you use information? Click the Add buttom to odd a database. You may continue to add database files that will be used with the label design. If you make a mittake click the Remove button. Uncertain the Add buttom to outperform the total design. If you make a mittake click the Remove button. Mark calabases are released, be sure to add the 'total's database last for sometry, a database the total cost purchases athough be been the database that the outperformation. Name Location | |
| | | Help (< <back. next="">) Cancel</back.> | |
| | L | | 1 |

Figure 5-20. New Label Wizard Database List

19. Enter a description for this label.

| (w) - 20 esgner dik 4200 on 050001 | New Label Wizard | | |
|------------------------------------|------------------|--|--|
| | | You may provide a description for your label here. The description may be used when browning labels in the future, or may be used for instructional or documentation purpose. It has no effect on how the label focks or print. | |
| | | Sample MSI Scale Label Print | |
| | | You have now entered in all the information that is required by the New Label Wissed. Club Frank to begin working with the label or Cancel to eait the valued without creating the label file. | |
| | | Help < | |

Figure 5-21. New Label Wizard Description

20. Configure the label size.

21. Add text data to the label.

| | 🛱 🗕 G 🔒 🗃 🖉 🖉 🖉 | I ₩ ¥ | | |
|----------------------------------|-------------------------------------|--------------------------|----------|--|
| (W) - ZDesigner GK420d on USB001 | | Care and a second second | | |
| New Label 1 | Text Properties | | × | |
| | Color | 1 | Position | |
| · - | General | Data | Font | |
| | Origin: Database | • | | |
| | Fle | | | |
| a 🚦 | acprint | | ✓ Add | |
| | Fields | | | |
| • | Name Sample | Type Min M | | |
|] . | id 0 weight 0 | N 1 2 N 1 1 | | |
| 5 | mode Error | UL 1 6 | | |
| | captureTimeStamp 03/11/2014 15:37:5 | 54 NP 19 1 | · | |
| f l | | | | |
| B. | | | | |
| 3 | | | | |
| -t | | , | | |
| | Verification Keyboard Verification | an Olf | | |
| | | 1000 A | | |

Figure 5-22. New Label Wizard Data

22. Start the *Sc2Db* application.

| ABEL MATRIX 2012 PowerPro Edit View Insert Grid Tools Window Trial Help | | | | | | |
|--|-----------|--------|-----------|-------|-----------------|--|
| 5 3 4 4 A A A A A A A A A A A A A A A A A | Br .* | .8 🔳 | * # | | | |
| (w) - 2Designer Print ONE sample label | | | | | | |
| ScaleCore Prototype | | | | | | |
| Weight Trmestamp 03/11/2014 15:37:54 | | | | | | |
| | Sc2DB | | | | | |
| 3 | Elle View | Help | | | 1.11.11.11.11.1 | Construction Construction |
| | SENSOR | WEIGHT | WGTSTRING | MODE | UNITS | CAPTURED |
| × 1 | 0 | 3,116 | 3116 | Gross | LB | 2014-03-12 15:58:08 |
| | 2 | 0 | | Error | | 2014-03-12 15:58:08 |
| | | | | | | |
| | 3 | 0 | ****** | Error | | 2014-03-12 15:58:08 |
| | 3 | 0 | | Error | | 2014-03-12 15:58:08 2014-03-12 15:58:08 |
| | 3 | 0 | | Error | | 2014-03-12 15:58:08 2014-03-12 15:58:08 |
| ★ 間間 認用 だ * * * * * * * * * * * * * * * * * * | 34 | 0 | | Error | | 2014-03-12 15:58:08 2014-03-12 15:58:08 Complete |
| | 34 | 000 | | Error | | 2014-03-12 15:58:08 2014-03-12 15:58:08 Complete |

Figure 5-23. Sc2Db Application

- 23. Print a label and observe the scale data formatted as desired on the label.
- 24. Continue with desired configuration of the Label Matrix software for your desired solution.

For additional details about configuring Label Matrix, Please contact <u>TekLynx</u> for support.

17

6.0 Troubleshooting

The following troubleshooting reference is intended to help with common problems related to the Sc2Db application. It is not a comprehensive solution for every problem.

| Problem | Solutions |
|--|---|
| The application does not start. | Verify the application has been installed correctly Confirm installation requirements Verify an instance of the application is not already running |
| There are no serial ports listed when I try to make a serial connection. | Confirm you are running the application on a compatible version of Windows. Confirm there are serial ports available on the installed platform. If using USB to serial converters, verify the device driver was correctly installed for the converter in Windows. |
| The application is not connecting to my RS-232 device. | Verify the device is turned on. Verify serial communications settings in both the application, and the device. Some ScaleCore devices require the radio be turned off for the serial port to operate. |
| The application is not connecting to my Ethernet/802.11 device. | Verify the device is turned on. Try using a ping tool to attempt to verify access to the device. Check firewall and router configuration. |

Table 6-1. Troubleshooting Guide

7.0 Acronyms and Glossary of Terms

Following is a list of acronyms and terms used throughout this document.

| Term | Definition |
|---------------|---|
| 802.3 | The IEEE standard for wired Ethernet. |
| 802.11 | The IEEE standard for wireless Ethernet. |
| ADC | Analog to Digital Converter. |
| AZM | Auto Zero Maintenance. |
| COZ | Center of Zero. |
| DAC | Digital to Analog Converter. |
| LC | See Load Cell. |
| LED | Light Emitting Diode. |
| Load Cell | A transducer that is used to convert a force into electrical signal. |
| Math (Sensor) | A sensor type that uses math functions to combine multiple load sensors into one value. |
| RS-232 | Serial Communications Protocol. |
| SC | ScaleCore is a family of products by Measurement Systems International. |
| SC Device | A term referring to a physical ScaleCore family weighing product. |
| SCCMP | ScaleCore Configuration Management Program. |
| ScaleCore | A family of weighing products by Measurement Systems International. |
| Setpoint | A standard function in ScaleCore products to monitor load thresholds. |
| TCP/IP | Transmission Control Protocol / Internet Protocol. |



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