

# ProMix<sup>®</sup> 2KS Web Interfaces

313386B

*Installation and program setup instructions to allow communication between a PC and the ProMix<sup>®</sup> 2KS Electronic Proportioner, via an Ethernet.*

**Basic Web Interface (supplied with ProMix 2KS EasyKey software)**

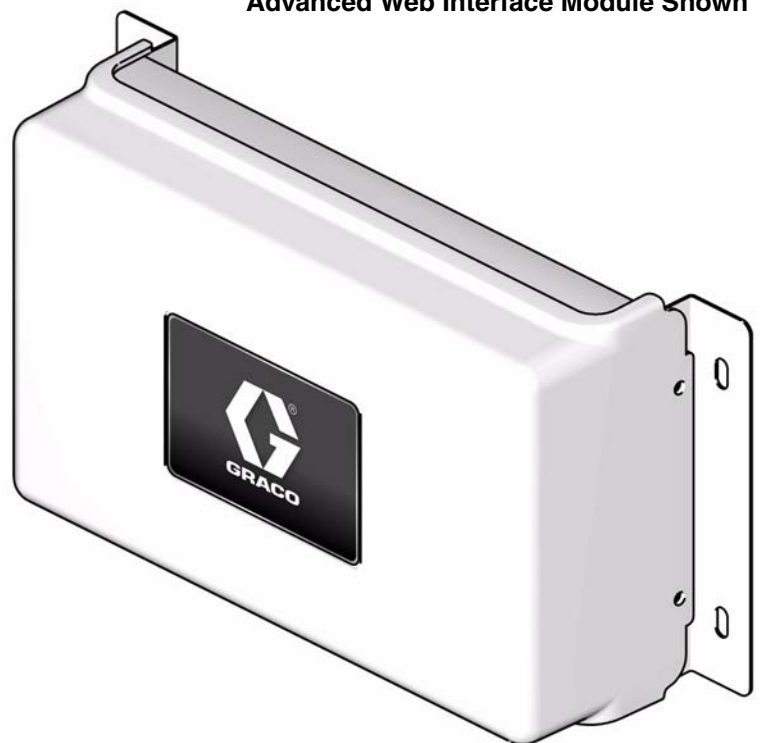
**Advanced Web Interface Kit 15V337 (Accessory)**



## **Important Safety Instructions**

Read all warnings and instructions in this manual and in your proportioning system manual. Save these instructions.

**Advanced Web Interface Module Shown**



T112933a

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## Related Manuals

### Component Manuals in English

Manual	Description
312775	ProMix 2KS Manual System Installation
312776	ProMix 2KS Manual System Operation
312777	ProMix 2KS Manual System Repair-Parts
312778	ProMix 2KS Automatic System Installation
312779	ProMix 2KS Automatic System Operation
312780	ProMix 2KS Automatic System Repair-Parts
312781	Fluid Mix Manifold
312782	Dispense Valve
312783	Color Change Valve Stacks
312787	Color Change Module Kit
312784	Gun Flush Box Kits
310745	Gun Air Shutoff Kit
312786	Dump Valve and Third Purge Valve Kits
312785	Network Communication Kits
308778	G3000/G3000HR/G250/G250HR Flow Meter
310696	Coriolis Flow Meter
313212	Gun Flush Box Integration Kit
313290	Floor Stand Kit

# Warnings

The following warnings are for the setup, use, grounding, maintenance, and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbol refers to procedure-specific risk. Refer back to these warnings. Additional, product-specific warnings may be found throughout the body of this manual where applicable.

 <b>WARNING</b>	
	<p><b>EQUIPMENT MISUSE HAZARD</b></p> <p>Misuse can cause death or serious injury.</p> <ul style="list-style-type: none"> <li>• Do not operate the unit when fatigued or under the influence of drugs or alcohol.</li> <li>• Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See <b>Technical Data</b> in all equipment manuals.</li> <li>• Use fluids and solvents that are compatible with equipment wetted parts. See <b>Technical Data</b> in all equipment manuals. Read fluid and solvent manufacturer's warnings. For complete information about your material, request MSDS forms from distributor or retailer.</li> <li>• Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer's replacement parts only.</li> <li>• Do not alter or modify equipment.</li> <li>• Use equipment only for its intended purpose. Call your distributor for information.</li> <li>• Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces.</li> <li>• Do not kink or over bend hoses or use hoses to pull equipment.</li> <li>• Keep children and animals away from work area.</li> <li>• Comply with all applicable safety regulations.</li> </ul>
	<p><b>ELECTRIC SHOCK HAZARD</b></p> <p>Improper grounding, setup, or usage of the system can cause electric shock.</p> <ul style="list-style-type: none"> <li>• Turn off and disconnect power at main switch before disconnecting any cables and before servicing equipment.</li> <li>• Connect only to grounded power source.</li> <li>• All electrical wiring must be done by a qualified electrician and comply with all local codes and regulations.</li> </ul>

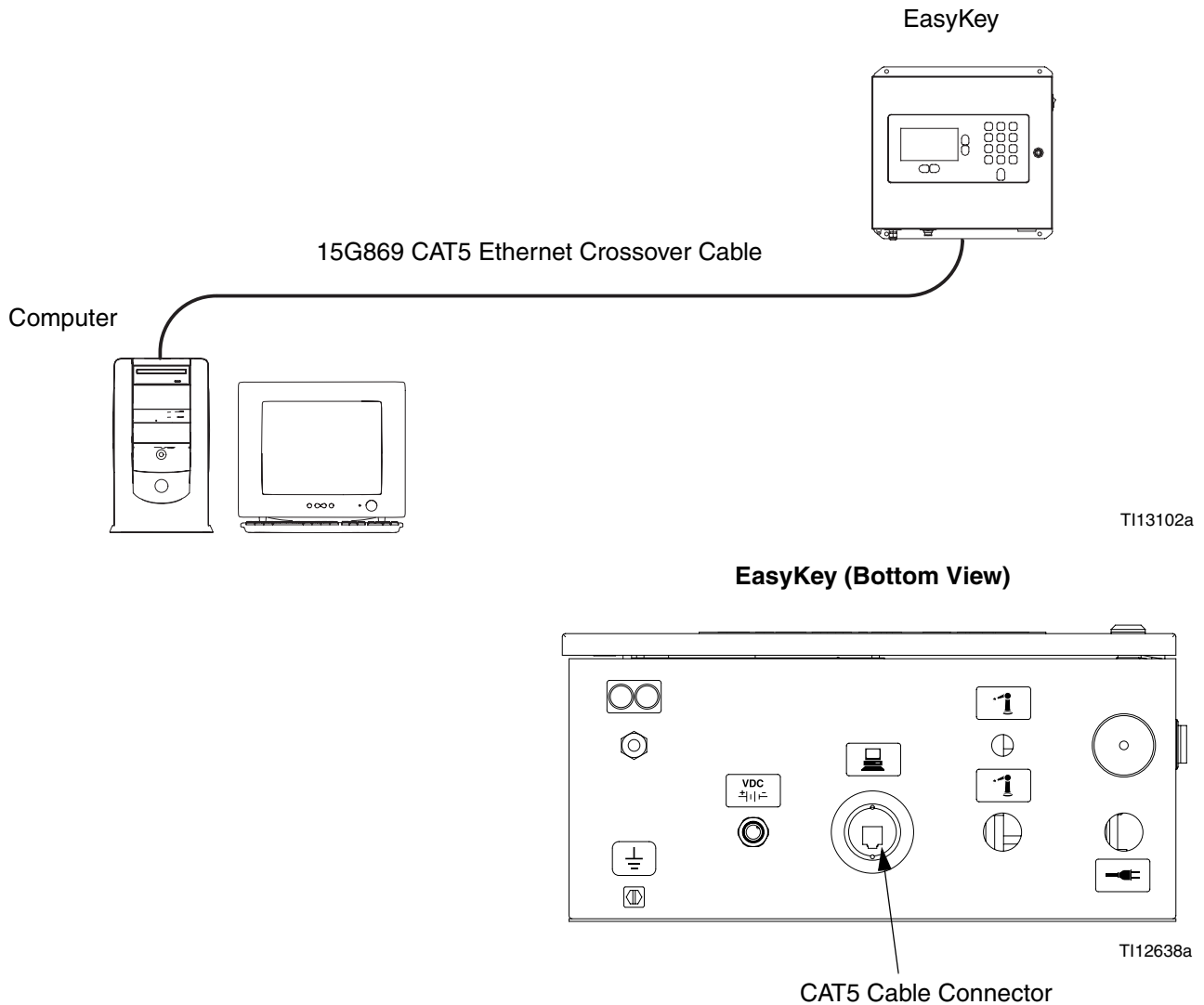
# ProMix 2KS Basic Web Interface (BWI)

**NOTE:** Screen views in this manual are shown using Microsoft Windows XP.

**NOTE:** The ProMix 2KS Basic Web Interface (BWI) is supplied with all EasyKeys. To run the program, Java Version 6 Update 10 (or later) must be loaded on your computer. This is a free download.

## Installation

1. Before connecting your computer to the EasyKey, verify that Java Version 6 Update 10 (or later) is loaded on your computer. To verify, go to Java.com using your Internet browser and click on “Do I Have Java?” for further information.
2. After verifying that Java is loaded on the computer, connect the computer directly to the EasyKey, using the 15G869 CAT5 ethernet crossover cable supplied with the EasyKey. See FIG. 1.



**FIG. 1. ProMix 2KS Basic Web Interface Connection**

3. Before running the BWI software you must manually assign an IP address to your computer:

a. On your computer, click on the Start button



to open the menu, then click

on Control Panel  Control Panel

b. See FIG. 2. Double click on Network Connections. Double click on Local Area Connection to open the Local Area Connection Status window. Click on Properties to open the Local Area Connection Properties window. See FIG. 3.

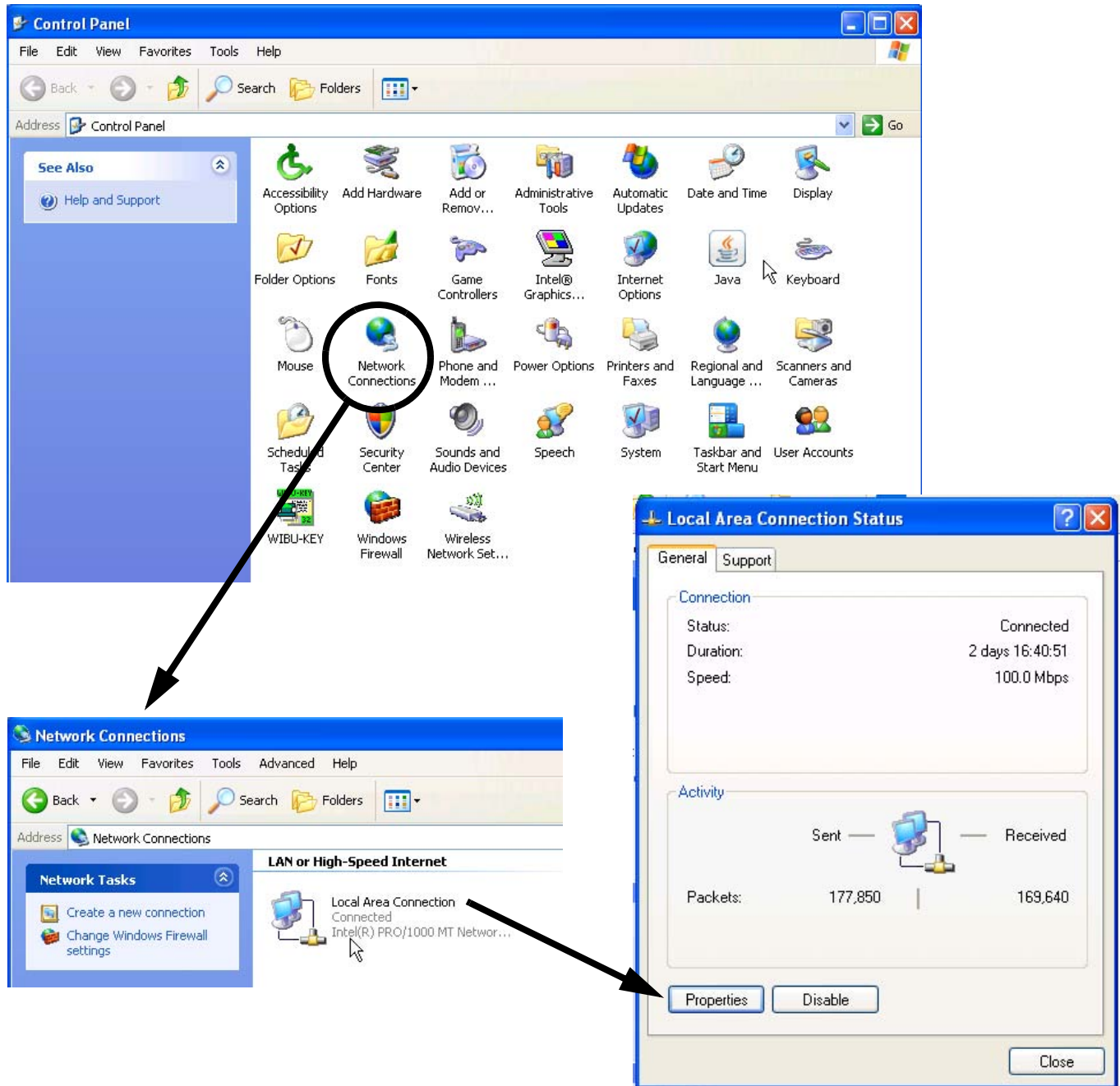
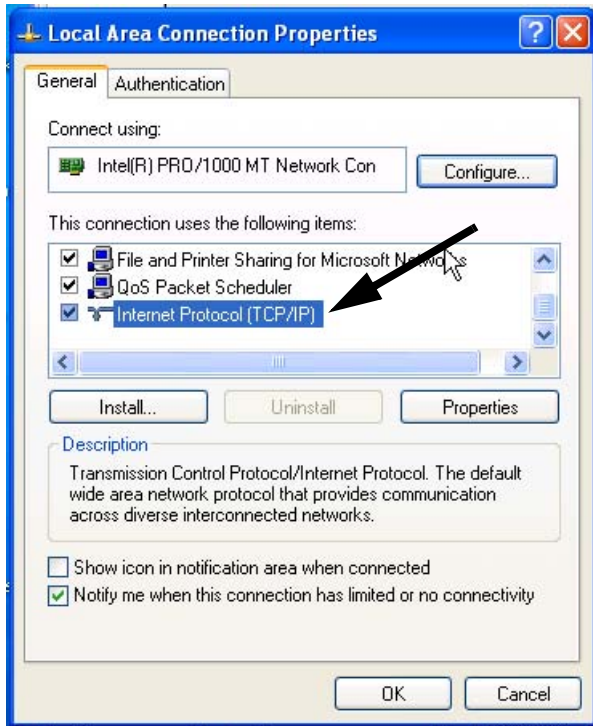


FIG. 2. Assign IP Address on Computer

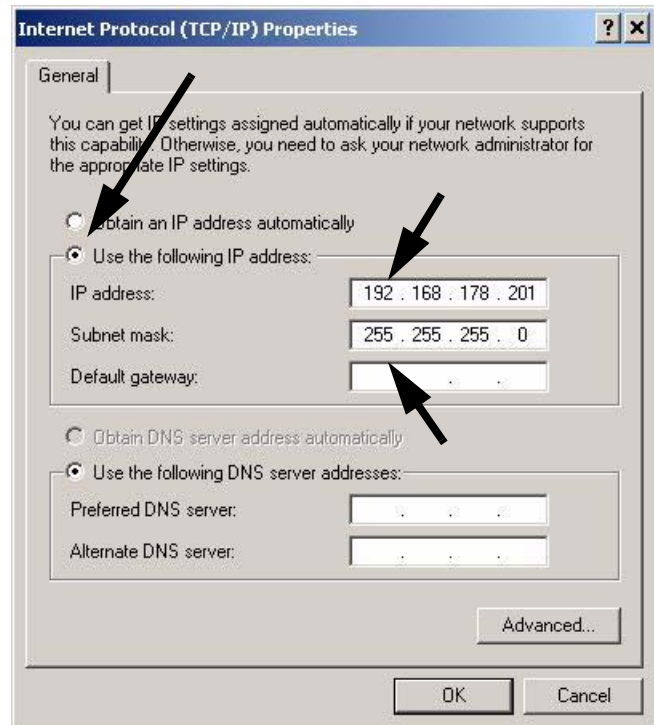
- c. In the Local Area Connection Properties window, scroll to Internet Protocol (TCP/IP) and double click, to open the Internet Protocol (TCP/IP) Properties window. See FIG. 4.



**FIG. 3: Local Area Connection Properties Window**

- d. See FIG. 4. Set to “Use the following IP address:”
- e. Type in the following IP address:  
192.168.178.201

- f. Type in the following Subnet mask:  
255.255.255.0



**FIG. 4: Internet Protocol (TCP/IP) Window**

**NOTE:** To reconnect to the user network, change the setting back to “Obtain an IP Address Automatically.”

- g. Click on OK to accept the changes and close the Internet Protocol (TCP/IP) Properties window.
- h. Click on OK to close the Local Area Connection Properties window.
- i. Close the Local Area Connection Status window and Network Connections window.

- On the EasyKey, go to System Configuration Screen 5 and write down the IP number assigned to that EasyKey (1-99). See FIG. 5.

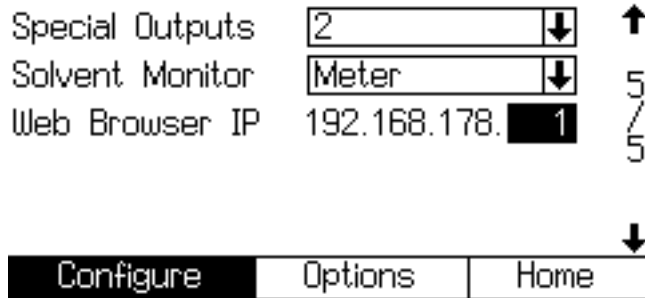


FIG. 5: System Configuration Screen 5

**NOTE:** Verify that the wireless connection is turned off (disabled) before performing step 5.

- Open Microsoft Internet Explorer (Start>All Programs>Internet Explorer).
- In the address area type `http://192.168.178.____` (fill in the last digit with the EasyKey IP number recorded in step 4).
- Press Enter.
- Select Run when security screen appears. See FIG. 6.



FIG. 6: BWI Security Screen

- Main software screen appears. See FIG. 7.
  - If “Cannot Read Firmware” appears check for loose hardware connections.

- If “ProMix web interface requires Java to run” appears, verify that Java Version 6 Update 10 (or later) is loaded on your computer. See page 4.

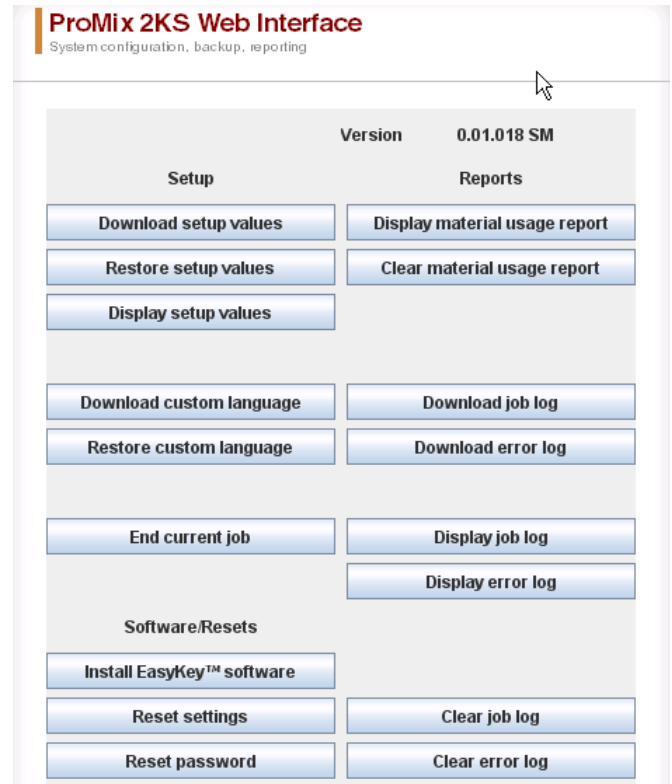


FIG. 7. Main BWI Screen

## Web Navigation Screens

From the main BWI screen (see FIG. 7) the operator can select Setup, Software/Resets, or Reports.

**NOTE:** Before running the BWI program, check the EasyKey Status screen to ensure that the system is in Standby.

### Setup

**Download setup values** - saves the ProMix 2KS configuration to the PC. This file can be opened and edited using Microsoft Excel, or used to set up multiple systems.

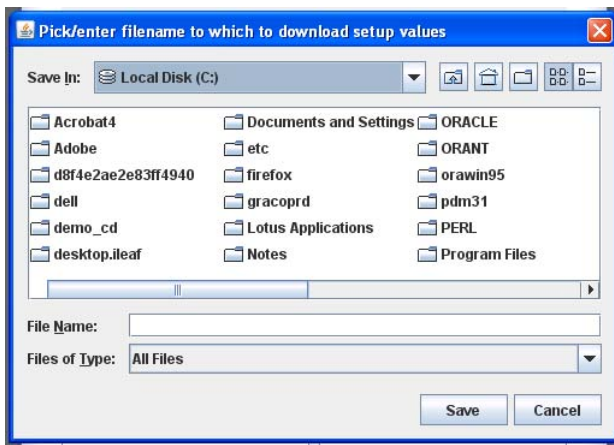


FIG. 8: Download Setup Values

**Restore setup values** - allows files to be uploaded and restored to the ProMix 2KS.

**Display setup values** - indicates what values are currently being used for the system. Allows the operator to verify that the right values are being used. See FIG. 9.

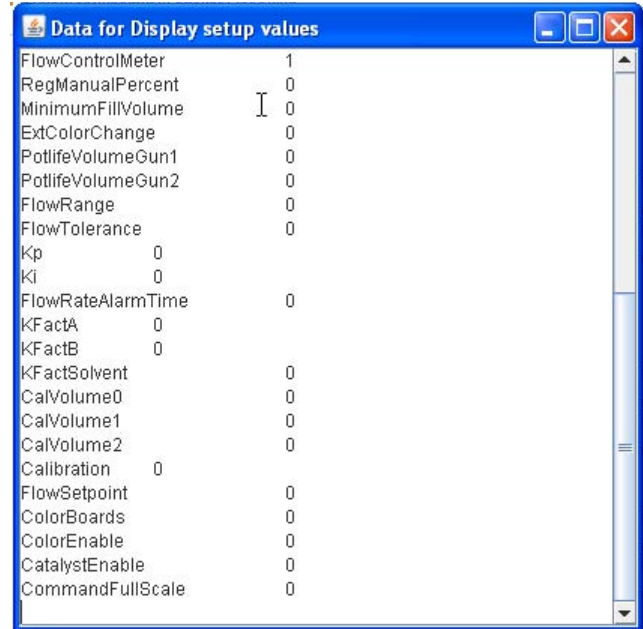


FIG. 9: Display Set Up



**Download custom language** - saves the current system language to the PC. See FIG. 10. This file is opened and a custom language added to the B column of the Excel file.

**NOTE:** Custom languages are limited to Ascii and Ascii extended characters and a maximum of 32 characters. Save the Excel file as a tab delineated file for uploading purposes.

**Restore custom language** - allows the custom language file to be uploaded to the ProMix 2KS.

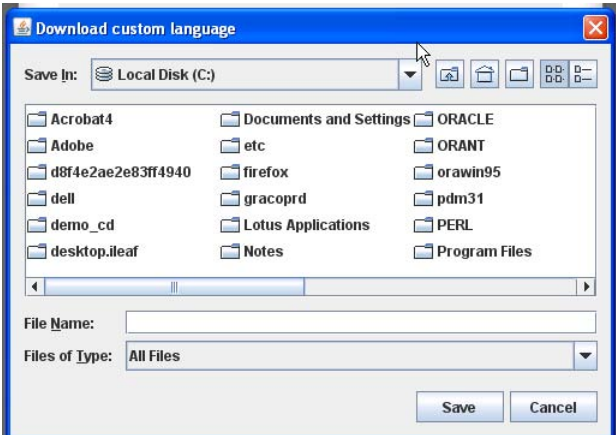


FIG. 10: Download Custom Language

**End current job** - ends a job and adds material to usage report. The screen will prompt for confirmation. See FIG. 11.

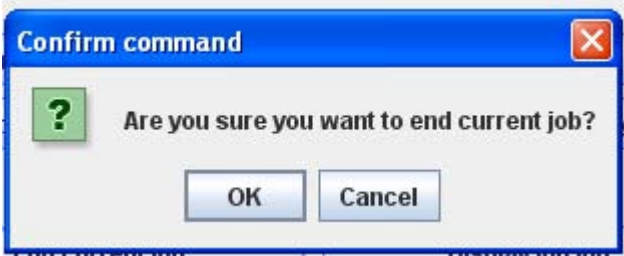


FIG. 11: End Current Job

### Software/Resets

**Install EasyKey software** - installs firmware for the current device (approximately 6 minutes). See FIG. 12.

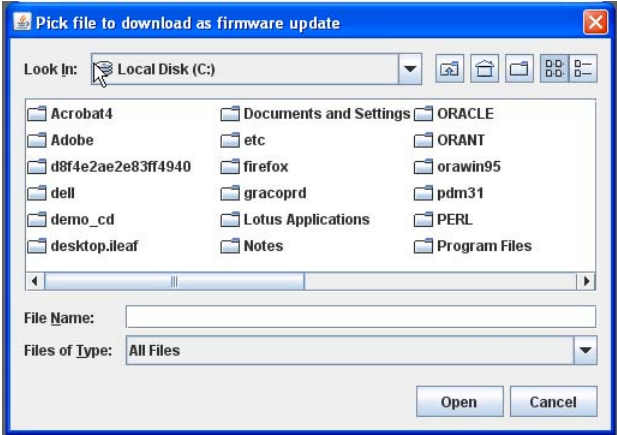


FIG. 12: Install EasyKey Software

**Reset settings** - places system back to factory default mode. The screen will prompt for confirmation. See FIG. 13.



FIG. 13: Reset Settings

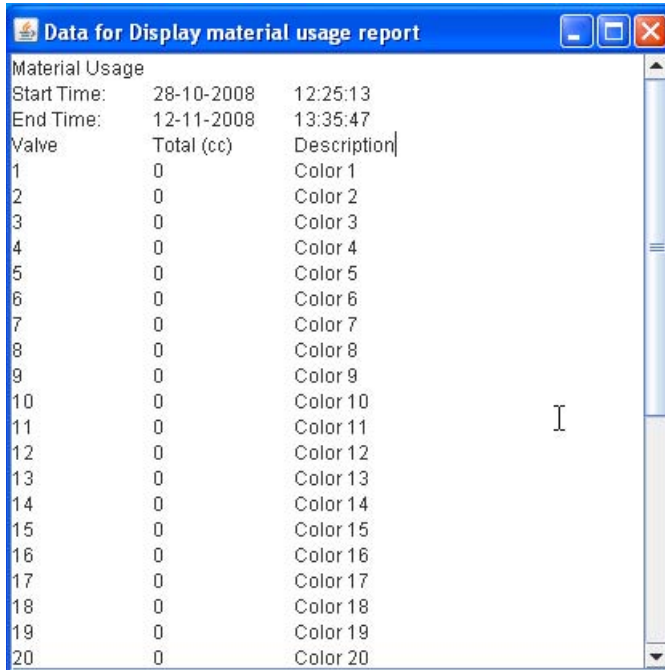
**Reset password** - clears password if lost or forgotten. The screen will prompt for confirmation. See FIG. 13.



FIG. 14: Reset Password

## Reports

**Display material usage report** - shows the material sprayed from the ProMix 2KS. See FIG. 15.



Valve	Total (cc)	Description
1	0	Color 1
2	0	Color 2
3	0	Color 3
4	0	Color 4
5	0	Color 5
6	0	Color 6
7	0	Color 7
8	0	Color 8
9	0	Color 9
10	0	Color 10
11	0	Color 11
12	0	Color 12
13	0	Color 13
14	0	Color 14
15	0	Color 15
16	0	Color 16
17	0	Color 17
18	0	Color 18
19	0	Color 19
20	0	Color 20

FIG. 15: Display Material Usage Report

**Clear material usage report** - deletes the material usage from the display.

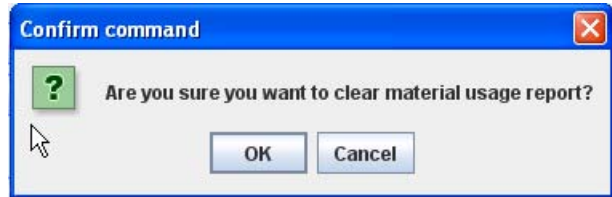


FIG. 16: Clear Material Usage Report

**Download job log** - downloads the job log to the PC.

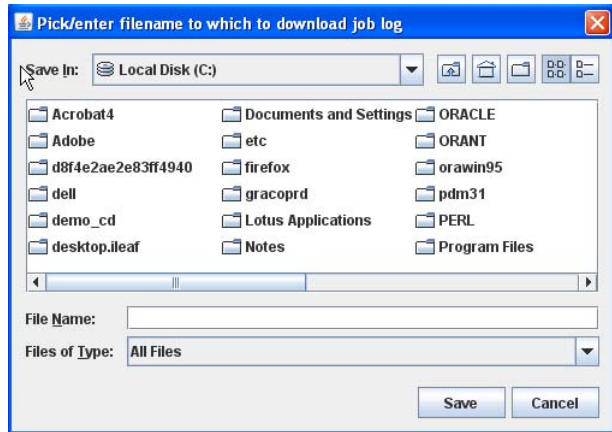


FIG. 17: Download Job Log

**Download error log** - downloads the error log to the PC.

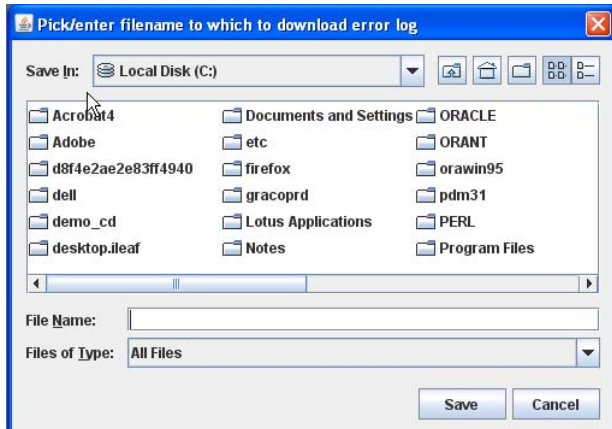


FIG. 18: Download Error Log

**Display job log** - displays the job number, date, time, recipe, ratio, target, volumes, grand totals, and any errors that occurred during the job. See FIG. 22.

**Display error log** - displays the number of alarms, date, time, recipe and what the error was. See FIG. 19.

Alarm	Date	Time	Recipe	Error
001	12-11-2008	12:14:30	0	E17
002	12-11-2008	08:52:38	0	E19
003	12-11-2008	08:52:30	0	E17
004	12-11-2008	08:52:38	0	E19
005	12-11-2008	08:49:39	255	E16
006	12-11-2008	08:44:18	0	E17
007	12-11-2008	08:44:18	0	E19
008	12-11-2008	08:42:30	0	E17
009	11-11-2008	21:34:35	0	E19

FIG. 19: Display Error Log

**Clear job log** - deletes the jobs from the display. The screen will prompt for confirmation. See FIG. 20.

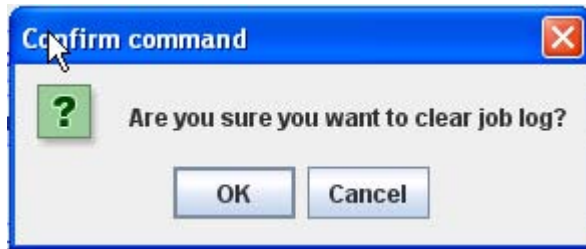


FIG. 20: Clear Job Log

**Clear error log** - deletes the errors from the display. The screen will prompt for confirmation. See FIG. 21.

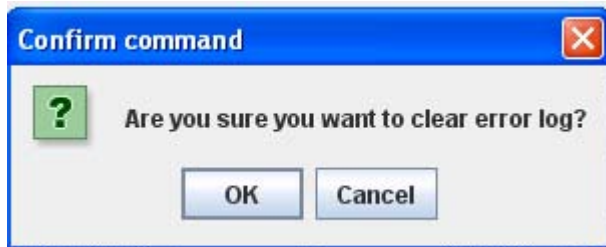


FIG. 21: Clear Error Log

Index	Job	Date	Time	Recipe	Ratio	Target	Vol A	Vol B	Vol Solvent

Scroll to right to view Grand Totals and Errors

FIG. 22: Display Job Log

# Install the Advanced Web Interface (AWI) Module

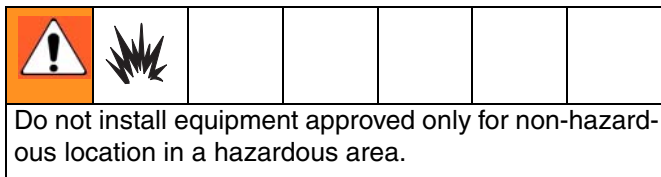
## Overview

The Graco Advanced Web Interface (AWI) Accessory allows communication between multiple ProMix 2KS and a PC over an Ethernet, enabling users to monitor the ProMix 2KS, view and change system setup parameters, and create reports.

**NOTE:** Screen views in this manual are shown using Microsoft Windows XP.

## Location

The AWI module may be installed in a local ProMix 2KS network (see FIG. 25) or in a LAN network (see FIG. 26).



Install the module near the EasyKey, in a non-hazardous area.

## Mounting

1. See **Dimensions**, page 39.
2. Ensure that the wall and mounting hardware are strong enough to support the weight of the equipment, fluid, hoses, and stress caused during operation.
3. Using the equipment as a template, mark the mounting holes on the wall at a convenient height for the operator and so equipment is easily accessible for maintenance.
4. Drill mounting holes in the wall. Install anchors as needed.
5. Bolt equipment securely.

## Connect Module to EasyKey and PC

**NOTICE**

To avoid damaging circuit board when servicing, wear grounding strap on wrist and ground appropriately.

1. Shut off ProMix 2KS power (0 position). FIG. 23. Also shut off power at main circuit breaker.

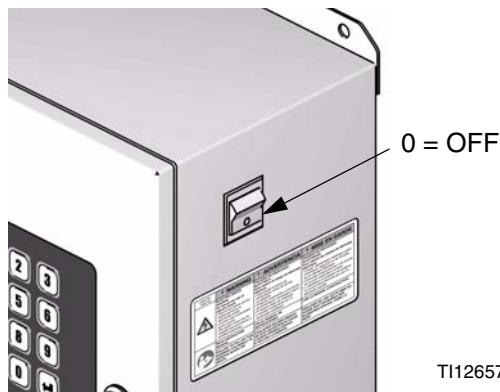
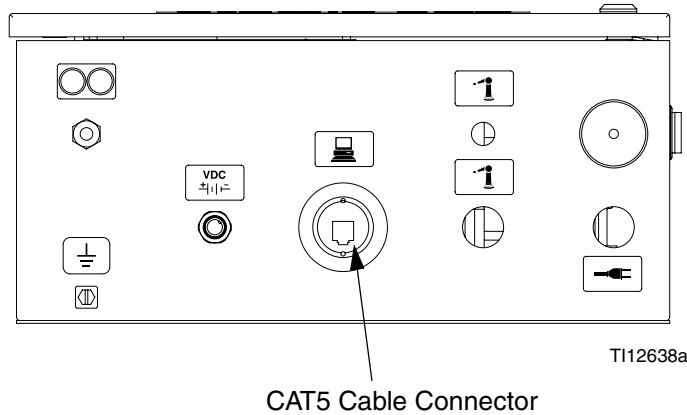


FIG. 23: Power Off

2. Run a CAT5 cable from the EasyKey connector through the grommet and connect it to any port in the AWI module. Connect another CAT5 cable from the AWI module to the PC. See FIG. 24.
3. Plug in the module power cord.

**NOTE:** Multiple AWI server hubs can be connected to the AWI master module in series. See FIG. 25. Order Part No. 15V336 Hub, see page 37.

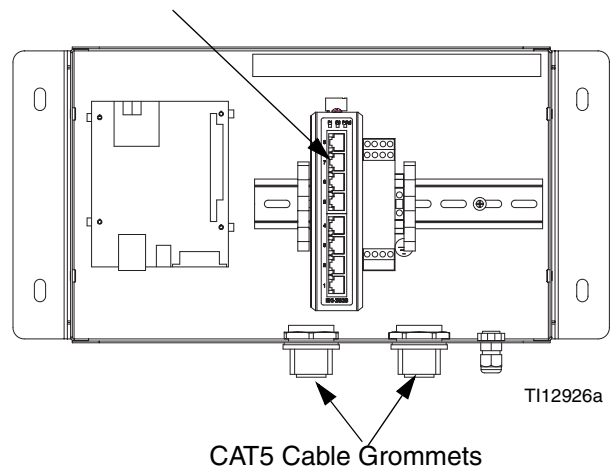
### EasyKey (Bottom View)



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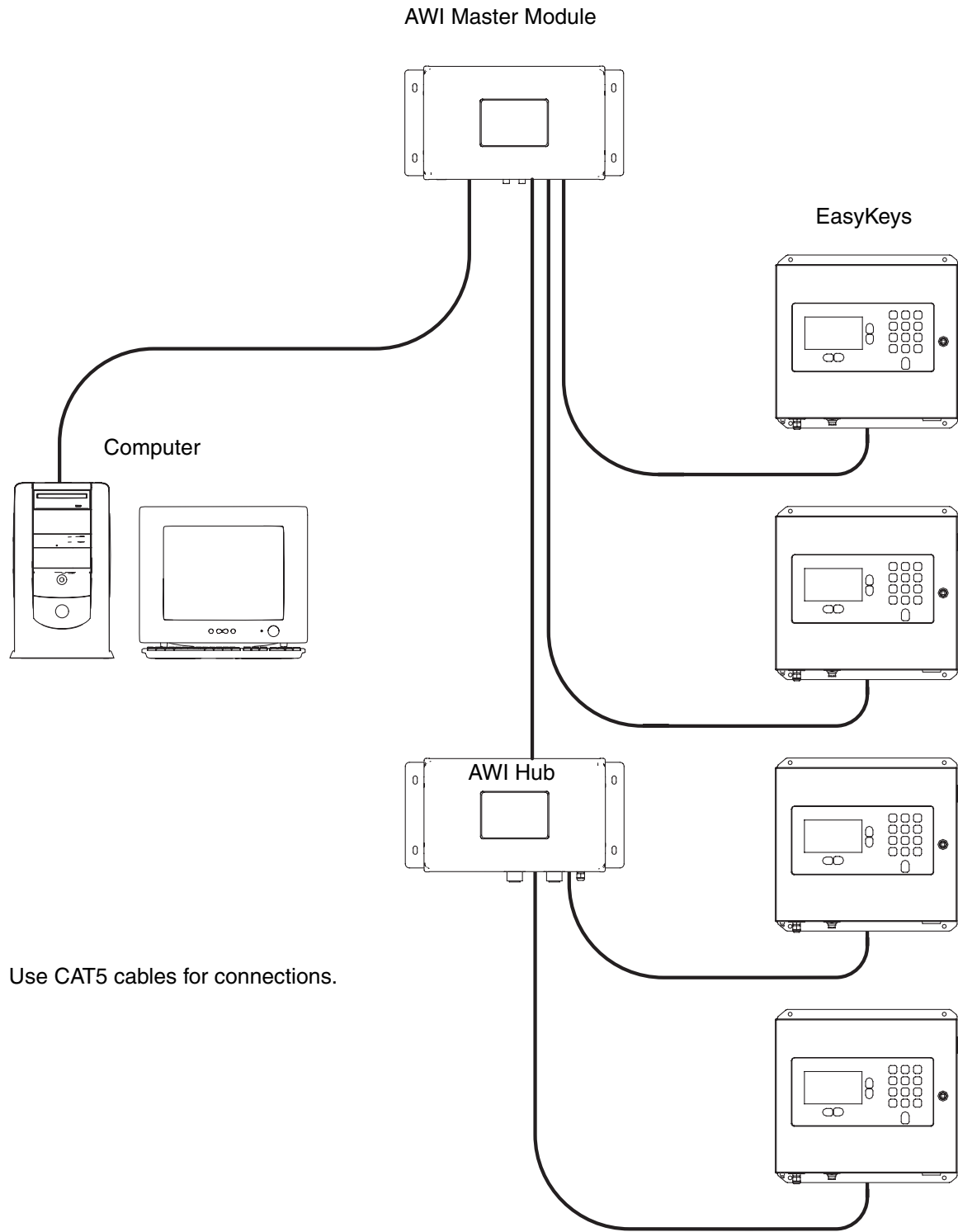
### Advanced Web Interface Module

Connect CAT5 Cables to any ports on module



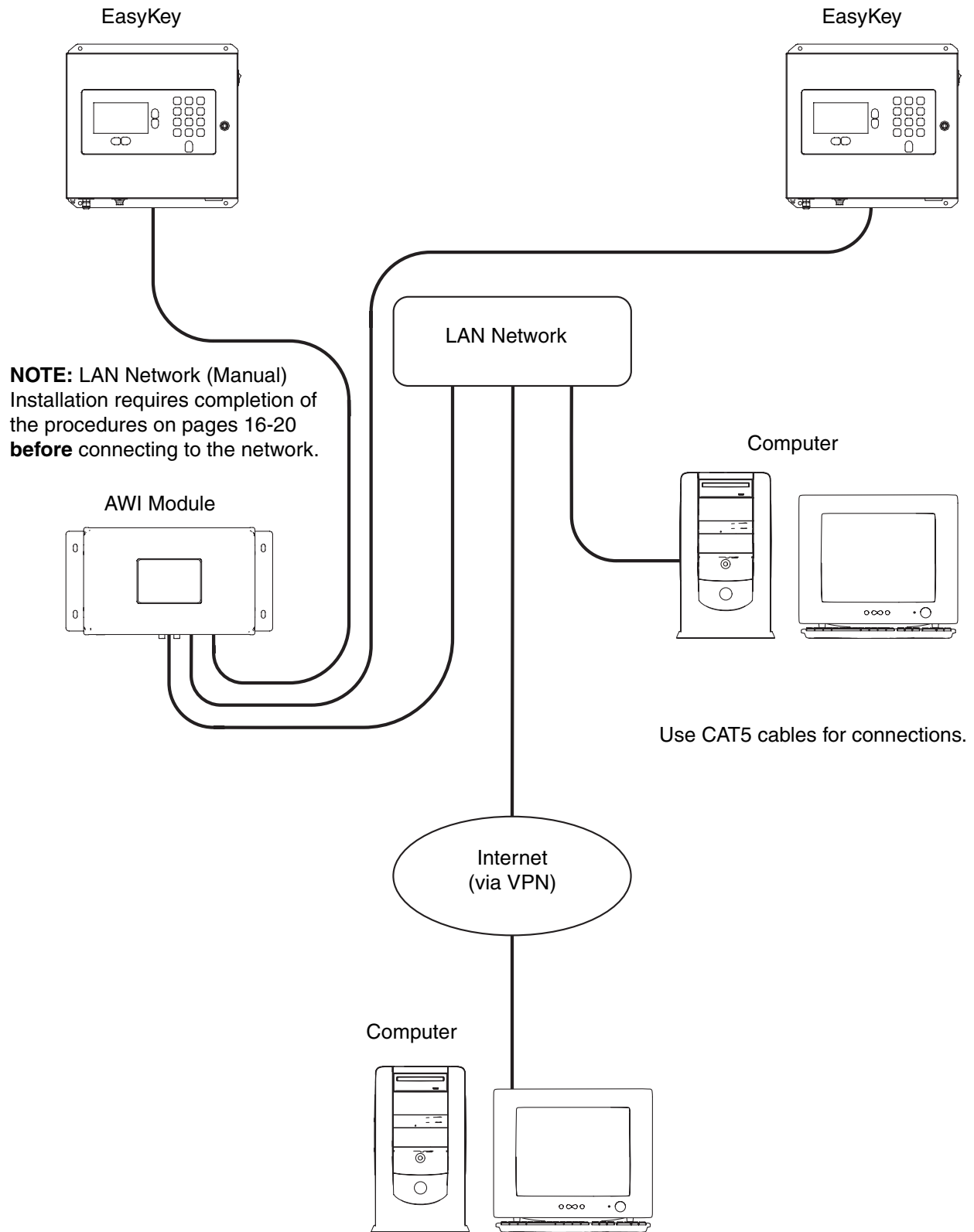
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FIG. 24: EasyKey and Module Cable Connection Points



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**Fig. 25: ProMix 2KS Network Typical Installation**



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FIG. 26: LAN Network (Manual) Typical Installation

# Computer Configuration

## Set up an Automatic IP Address

See FIG. 27. On your computer, go to Control Panel>Network Connections>Local Area Connection>Properties>Internet Protocol (TCP/IP). Verify that “Obtain an IP address automatically” is selected in the TCP/IP Properties window. If not, set it as shown. Click OK and close out of the Control Panel.

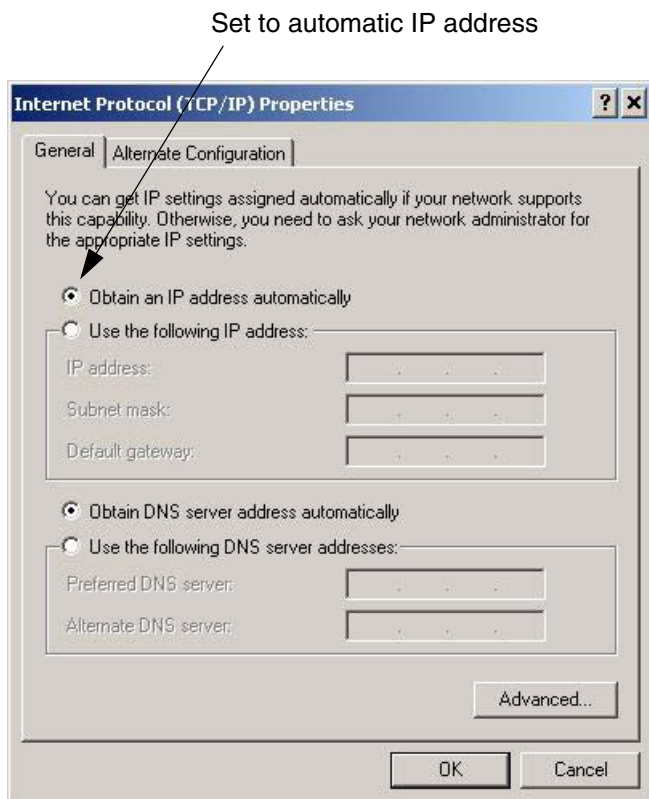


FIG. 27. Set Automatic IP Address

## System Initialization

**NOTE:** System initialization must be done by an administrator. This process is only required when the system is first started.

**NOTE:** Verify that the wireless connection is turned off (disabled) before performing step 1.

1. Open a browser. Firefox 3.0 or above is preferred. Microsoft Internet Explorer 6.0 or above is also acceptable.
2. *Applies to Firefox only:* To operate in a ProMIX 2KS network with Firefox, you must turn off the Proxy setting on your browser. In your Firefox browser, go to Tools>Options>Advanced>Network tab>Connection Settings. Click “No proxy.” See FIG. 28.

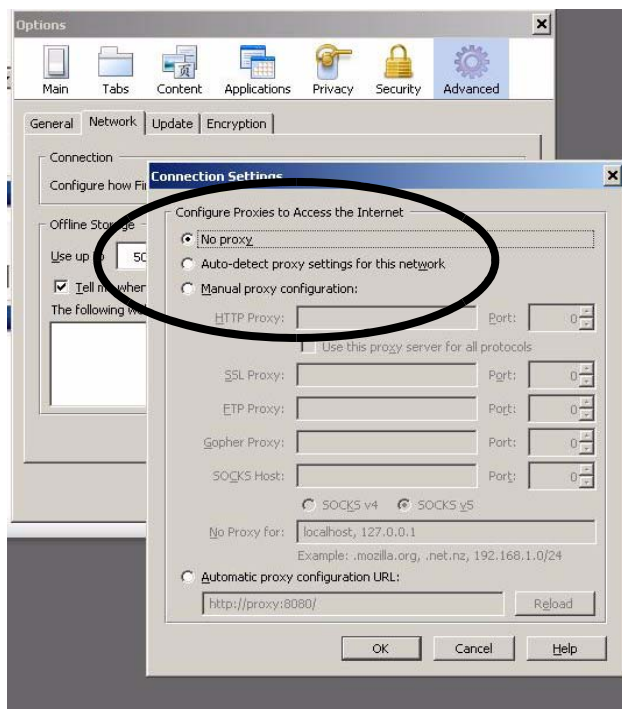


FIG. 28. Turn Off Proxy Setting (Firefox only)

3. Type **http://gracoawi:** in the browser address bar, and press Enter.



4. The Welcome screen will appear. See FIG. 29. Click Next.



FIG. 29. System Initialization Step 1

5. The Security screen will appear. See FIG. 30. The administrator must fill in all fields. Click Next.



FIG. 30. System Initialization Step 2

6. Initialization is complete. See FIG. 31. Click Finish.




FIG. 31. System Initialization Step 3

7. The Login screen will appear. See FIG. 32. Type in the login name and password you entered in step 5. Click Sign in. The Network screen will appear. See page 21.



FIG. 32. Login Screen

## Password Recovery

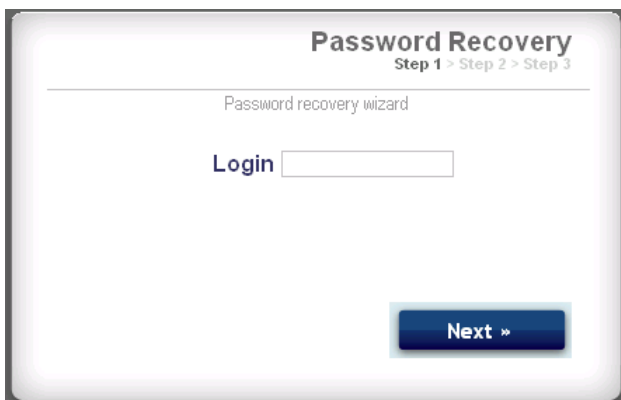
1. If you type in the wrong password, sign in will be blocked. See FIG. 33. Click on the block icon  to initiate the password recovery sequence.



Click on block icon

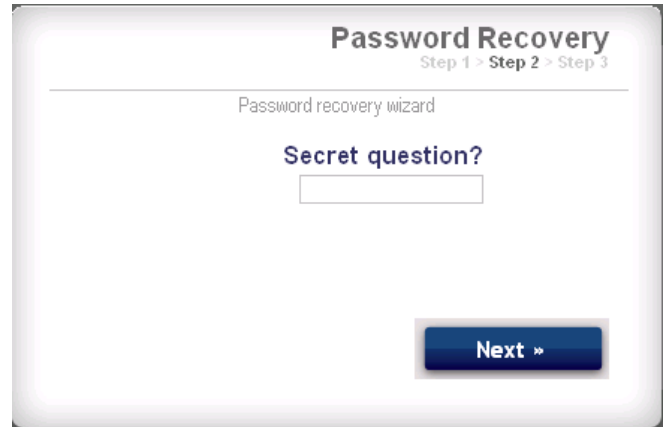
**FIG. 33. Sign in Blocked**

2. See FIG. 34. The system will prompt you for your login name. Type in the name you entered in step 5, then click Next.



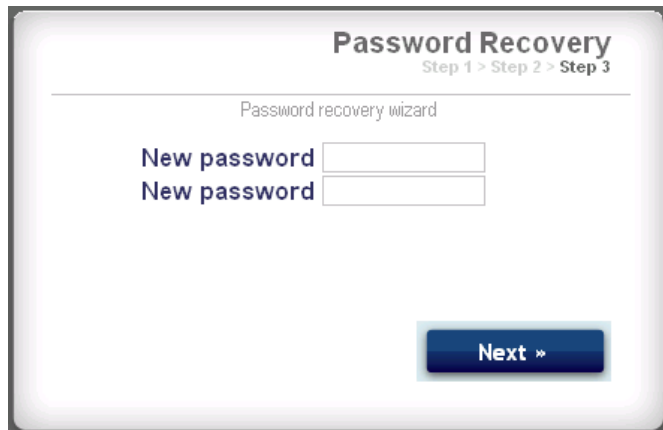
**FIG. 34. Password Recovery Step 1**

3. The system will then ask the secret question you entered in step 5. Type in the answer, then click Next.



**FIG. 35. Password Recovery Step 2**

4. If the answer matches the one entered in step 5, the system will prompt you for a new password. Enter the new password twice, then click Next. The system will return to the Login screen, FIG. 32.



**FIG. 36. Password Recovery Step 3**

## Set the Network Configuration

### ProMix 2KS Network Configuration

In a ProMix 2KS network, the AWI module is connected to an EasyKey and a personal computer. Up to 100 EasyKeys may be connected in the network. See FIG. 25.

To select a ProMix 2KS network, go to the Settings tab and select ProMix network. See FIG. 37.

Click Save.

Turn off the Proxy setting (Firefox only). See page 16.

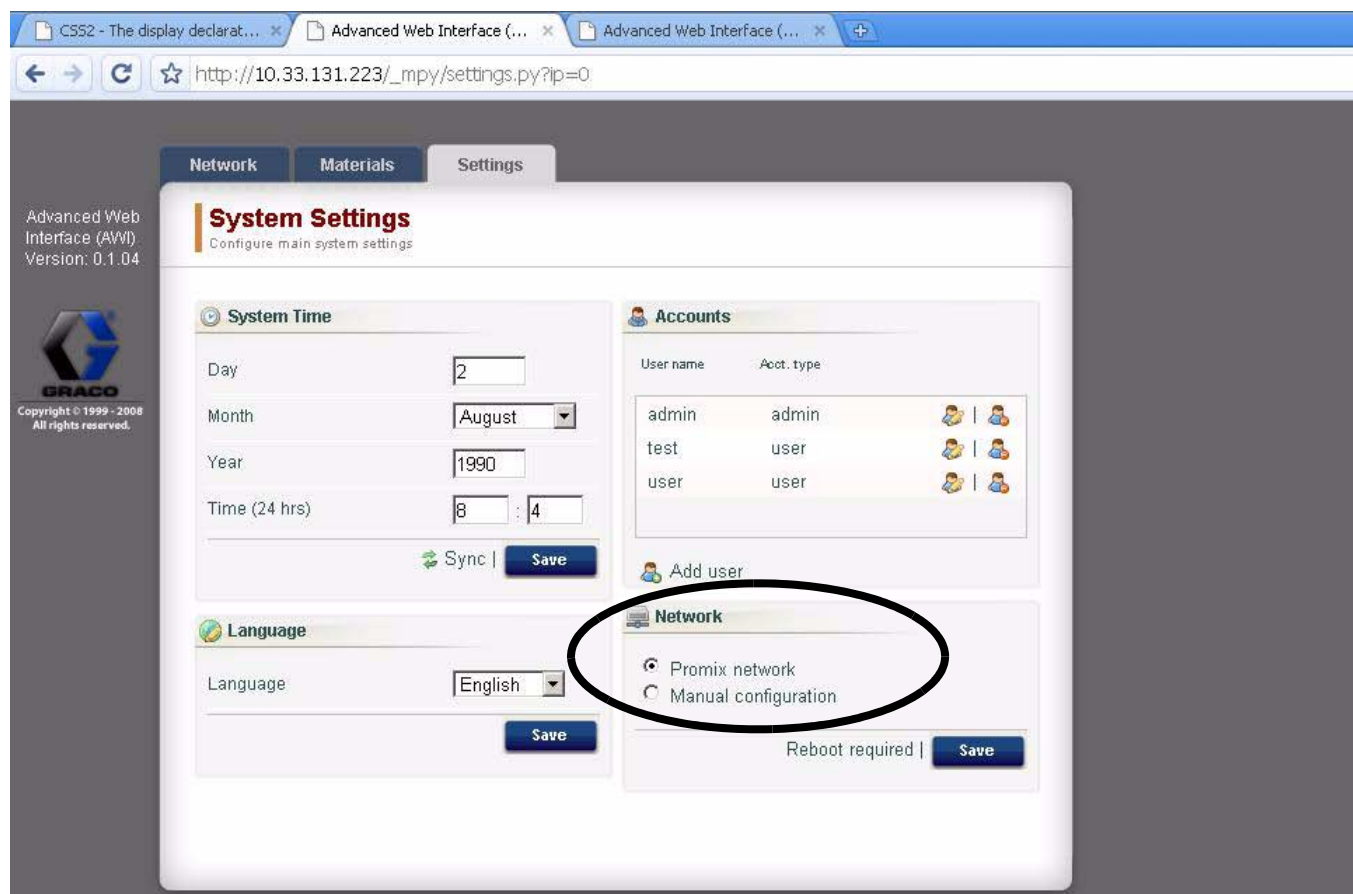


FIG. 37. ProMix 2KS Network Setting

## LAN Network (Manual) Configuration

See FIG. 26. A LAN network (manual) configuration enables you to work through a local network. Up to 100 EasyKeys may be connected in the network. The EasyKeys and AWI Module **must** be on the same sub-network. The EasyKeys can be connected to any LAN drop.

**NOTE:** To change to a LAN (manual) configuration, you must first connect to the AWI via the ProMix 2KS network. See pages 16-17 for instructions and FIG. 25 for cable connections.

To select a LAN (manual) configuration, go to the Settings tab and select Manual configuration. You will be required to enter IP, gateway, and Netmask addresses. Contact your IS system administrator for assistance. See FIG. 38.

**NOTE:** Use a new IP address to access the AWI; this replaces gracoawi (for LAN network systems only).

Click Save to apply the change.

**NOTE:** Once Save is clicked, the AWI will disconnect the user computer. Reconnect the AWI and computer as shown in FIG. 26. Reconfigure the user computer to match the new LAN configuration. You can then login to the AWI using the newly assigned IP address.

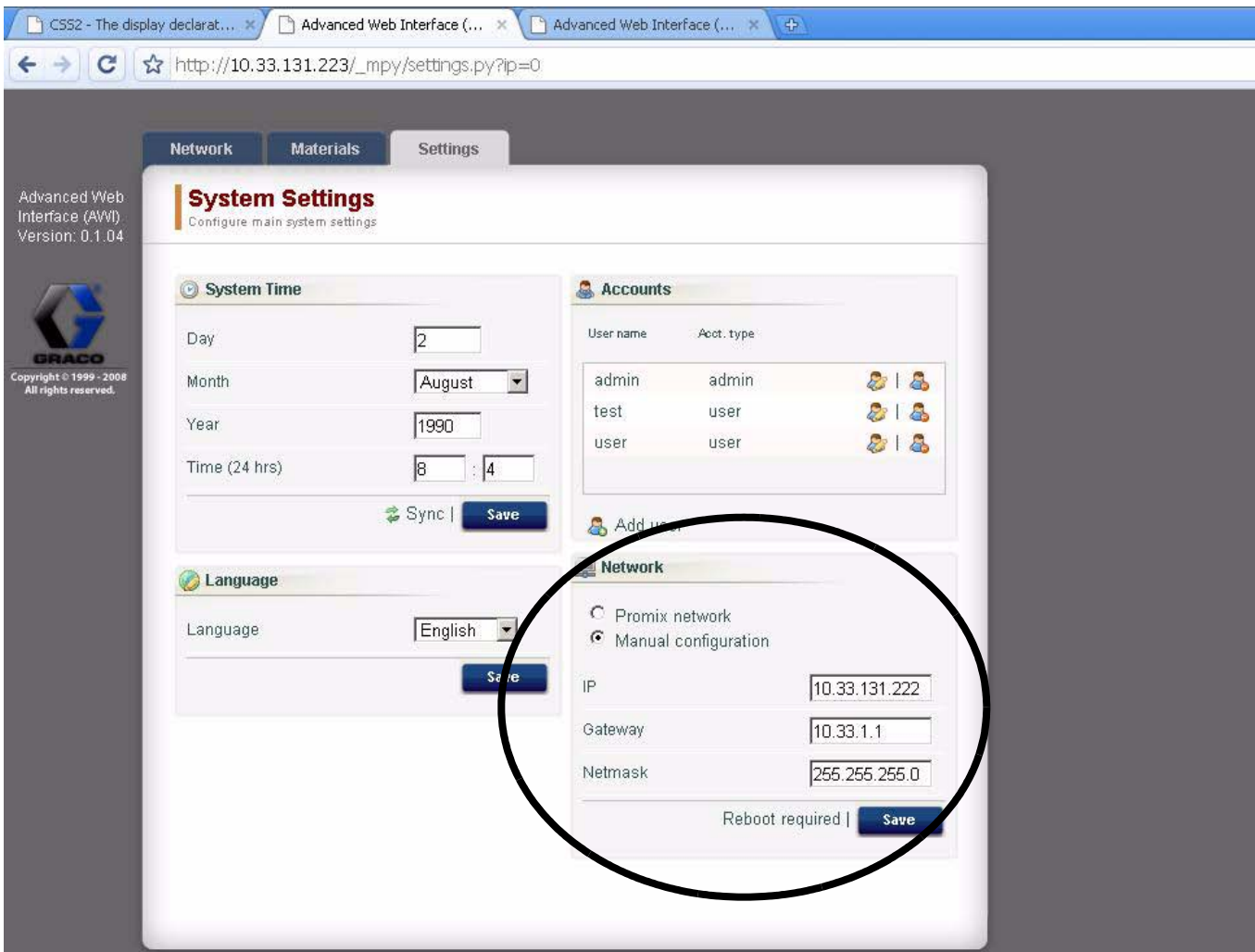


FIG. 38. LAN Network Setting

# AWI Screens

This section describes how to use the AWI screens to access and make changes to system settings and recipes. For complete information about these settings and their effects, see the Setup section in the system operation manual.

## Network Tab

Use the Network tab to select the desired EasyKey. See FIG. 39.

Each EasyKey must have a unique name and IP address. See the Configuration Screen in FIG. 45 to set the Station name (1-99).

Click on [Open Device](#) to access the setup screens for the selected EasyKey.

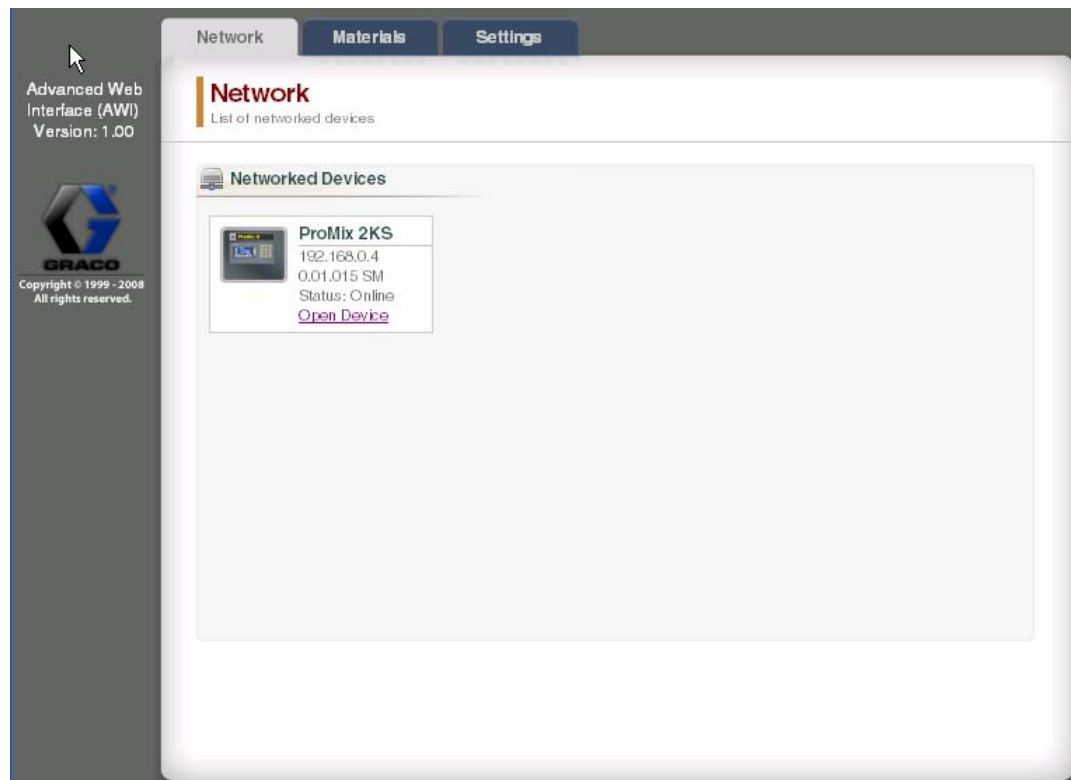



FIG. 39. Network Tab

## Materials Tab

Use the Materials tab to enter information on Volatile Components (VOC) and Hazardous Air Pollutants (HAP) for each material being used in your system, for material reporting. This information, and the manufacturer's part no., are available on the MSDS sheet provided by the material manufacturer. See FIG. 40.

VOC values may be set at Lbs/Gal or Gram/Liter as desired, using the pulldown menu.

To add a new material, click the Plus  button. Enter the values in the new data fields.

To delete a material, click the Minus  button.

To save your changes, click . A checkmark (✓) will appear when the save is complete.

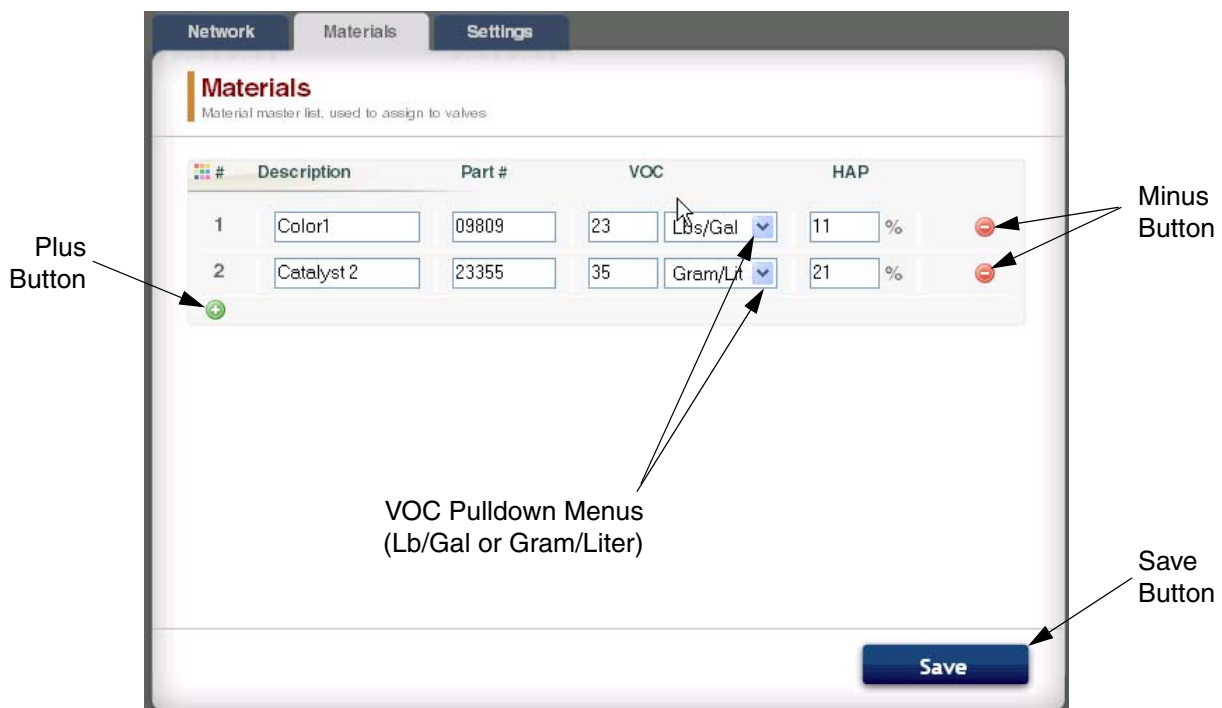



FIG. 40. Materials Tab






# Settings Tab

Use the Settings tab to configure the main system settings (Time, Language, and Accounts). See FIG. 41.

To synchronize the time settings on all networked Pro-Mix 2KS devices, click the Sync  Sync button. The change will take place in approximately one minute.

Set the desired language of the screen text, using the pulldown menu. Select English (default), Spanish, French, German, Italian, Dutch, Japanese (Kanji), Korean, and Chinese (Simplified).

**NOTE:** Account information can only be entered by a system administrator.

- To add a new account, click the Add User  button. Enter the information in the data fields. Click . A checkmark (✓) will appear in the top right corner when the save is complete.
- To edit an existing account, click the Edit User  button. Enter the information in the data fields. Click . A checkmark (✓) will appear the top right corner when the save is complete.
- To delete an existing account, click the Delete User  button.

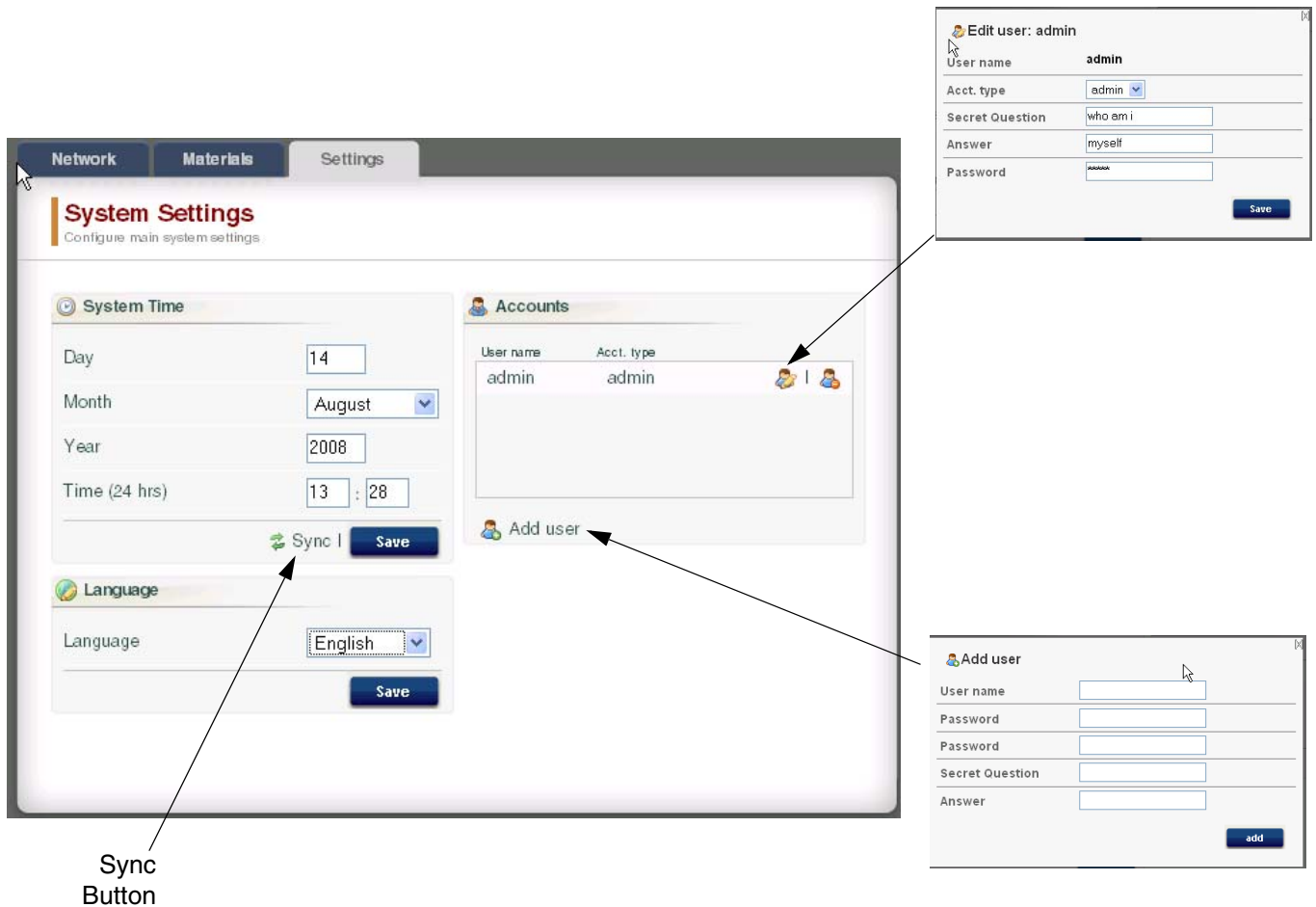


FIG. 41. System Settings Tab

## System Setup Screens

To view the system setup screens, go to the Network tab and select the desired EasyKey. Click on [Open Device](#) to access the setup screens for the selected EasyKey. See FIG. 42.



FIG. 42. Open Device

## Monitor Tab

Select the Monitor tab to view data from the EasyKey Status screen, in real time. See FIG. 43.

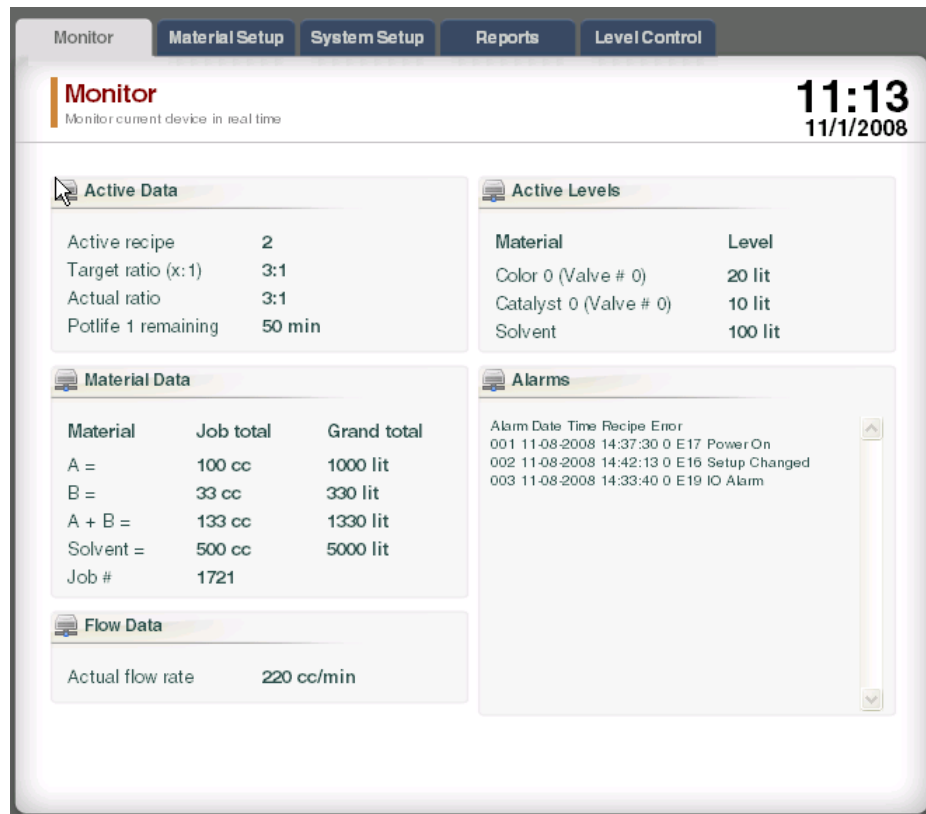


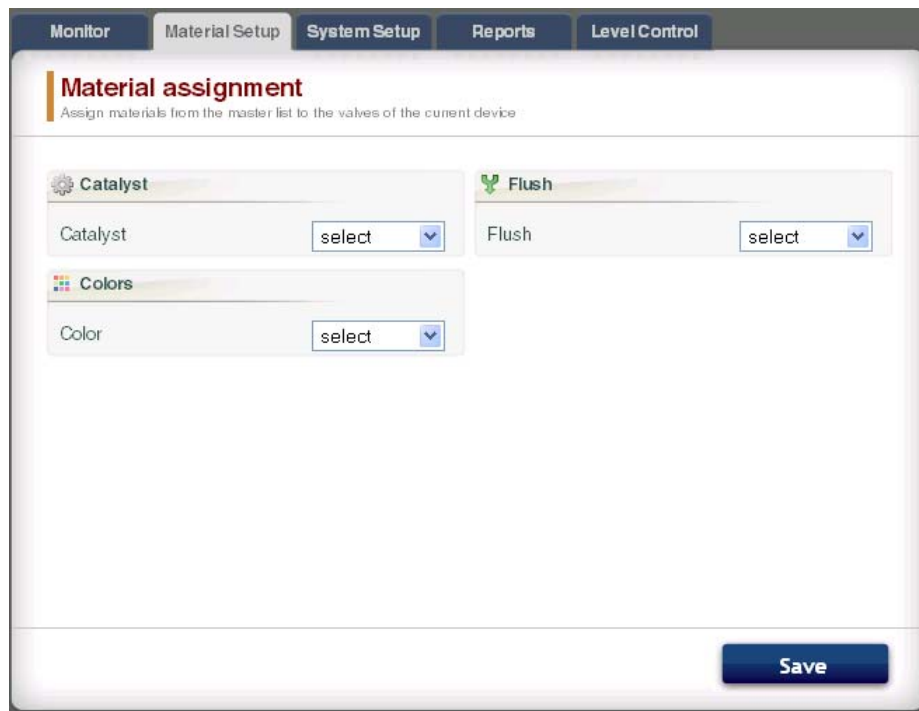
FIG. 43. Monitor Tab



## Material Setup Tab

Go to the Material Setup tab to assign a catalyst, color, and flush material for the valves of the active device, using the pulldown menus. Each device may include up to 30 color valves, 4 catalyst valves, and a solvent flush valve. The materials listed in each pulldown menu were established under the **Materials Tab** on page 22. See FIG. 44.

To save your changes, click . A checkmark (✓) will appear when the save is complete.



Monitor Material Setup System Setup Reports Level Control

### Material assignment

Assign materials from the master list to the valves of the current device

**Catalyst** Catalyst select

**Flush** Flush select

**Colors** Color select



Save


FIG. 44. Material Setup Tab

## System Setup Tab


The Setup tab has three editable screens:

- The **Configuration** screen corresponds to the System Configuration screens of the EasyKey. See FIG. 45. For complete information about these settings and their effects, see the Setup section in the system operation manual.
- The **Advanced** screen corresponds to the Advanced Setup screens of the EasyKey. See FIG. 46. For complete information about these settings and their effects, see the Setup section in the system operation manual.
- The **Recipe** screen corresponds to the Recipe Setup screens of the EasyKey. See FIG. 47. For complete information about these settings and their effects, see the Setup section in the system operation manual.

Use the arrow buttons    to view the previous or the next recipe, or enter the recipe number and press Enter.

Click on the Chart button  to create a timing chart of the active recipe. See FIG. 48.

To save your changes, click . A checkmark (✓) will appear when the save is complete.

**NOTE:** Changes made on the EasyKey screen before clicking  will be overwritten by the AWI data.

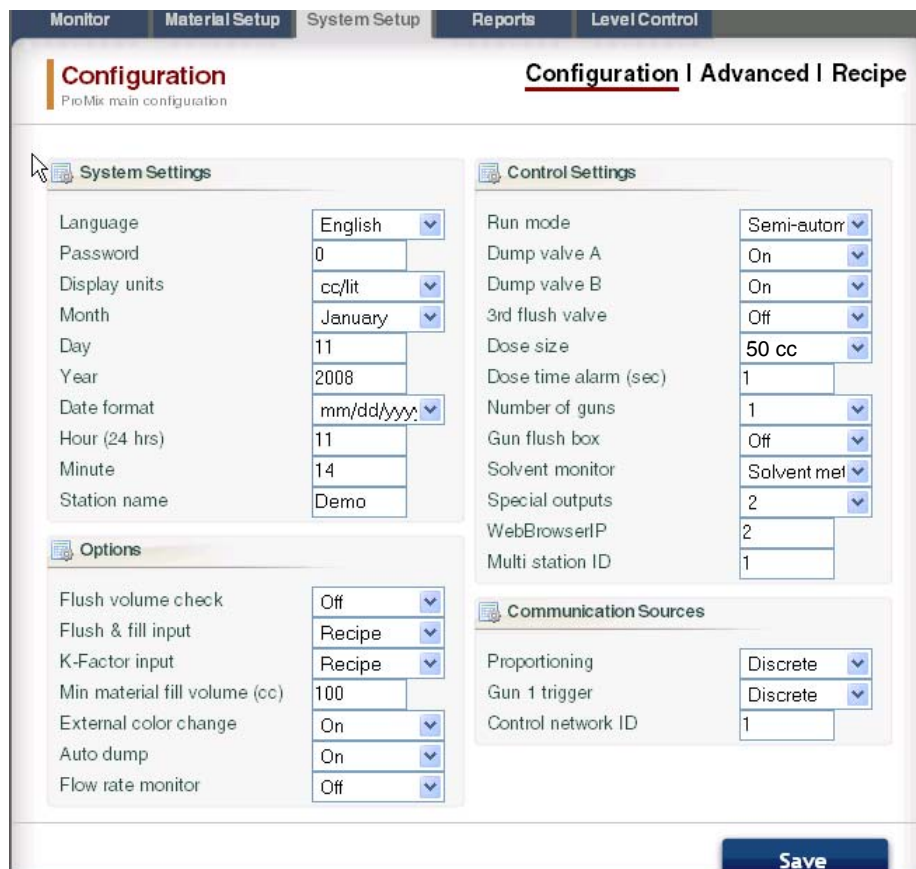


FIG. 45. System Setup Tab, Configuration Screen

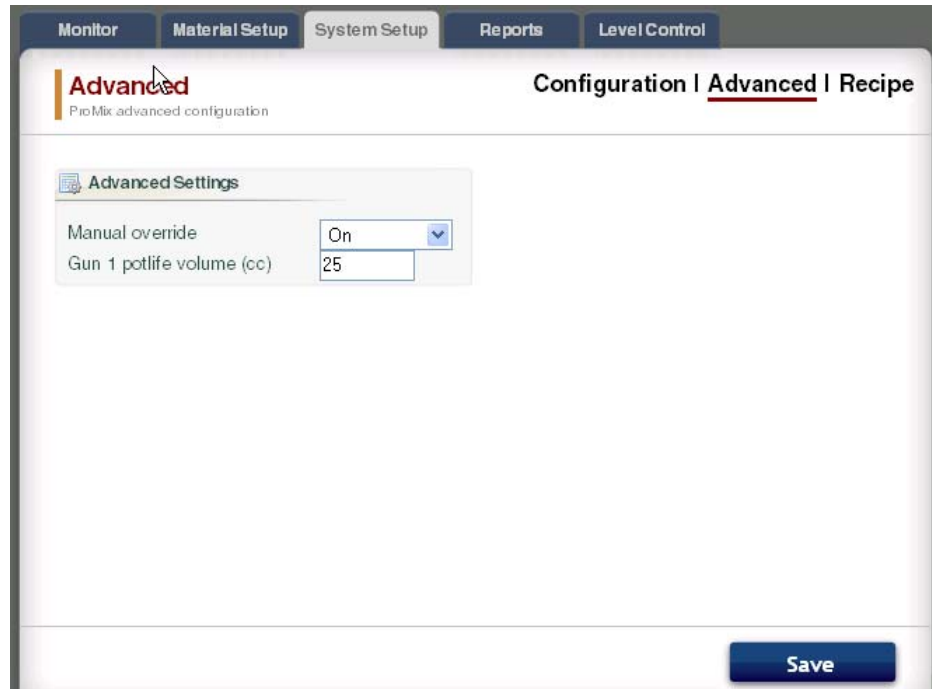
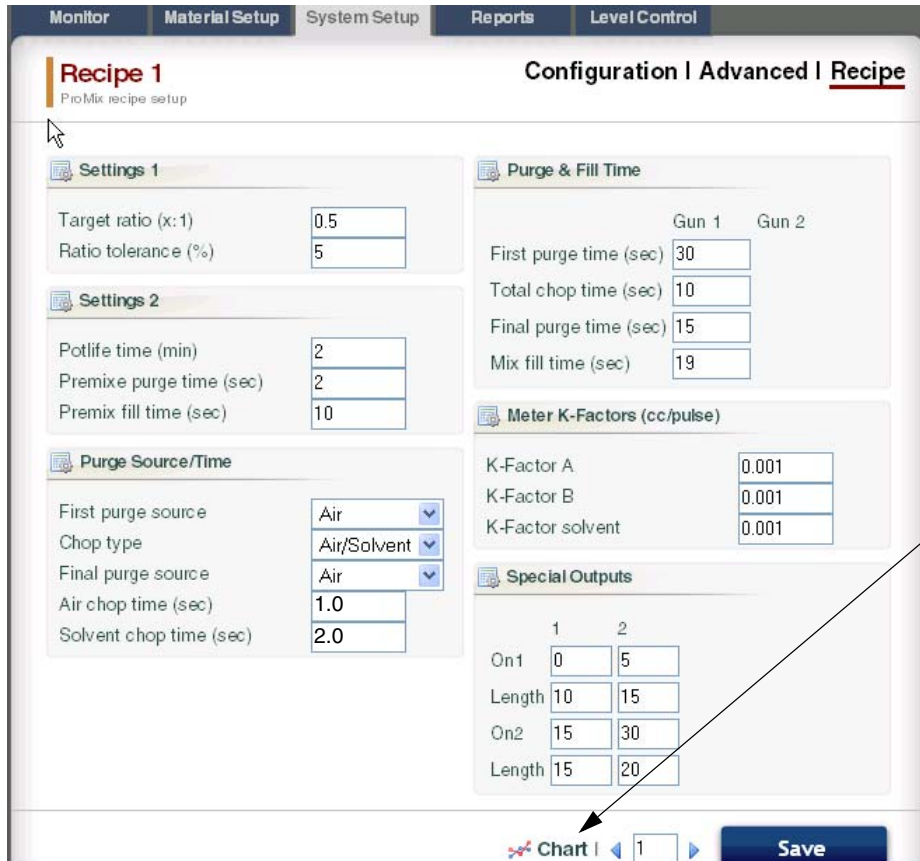
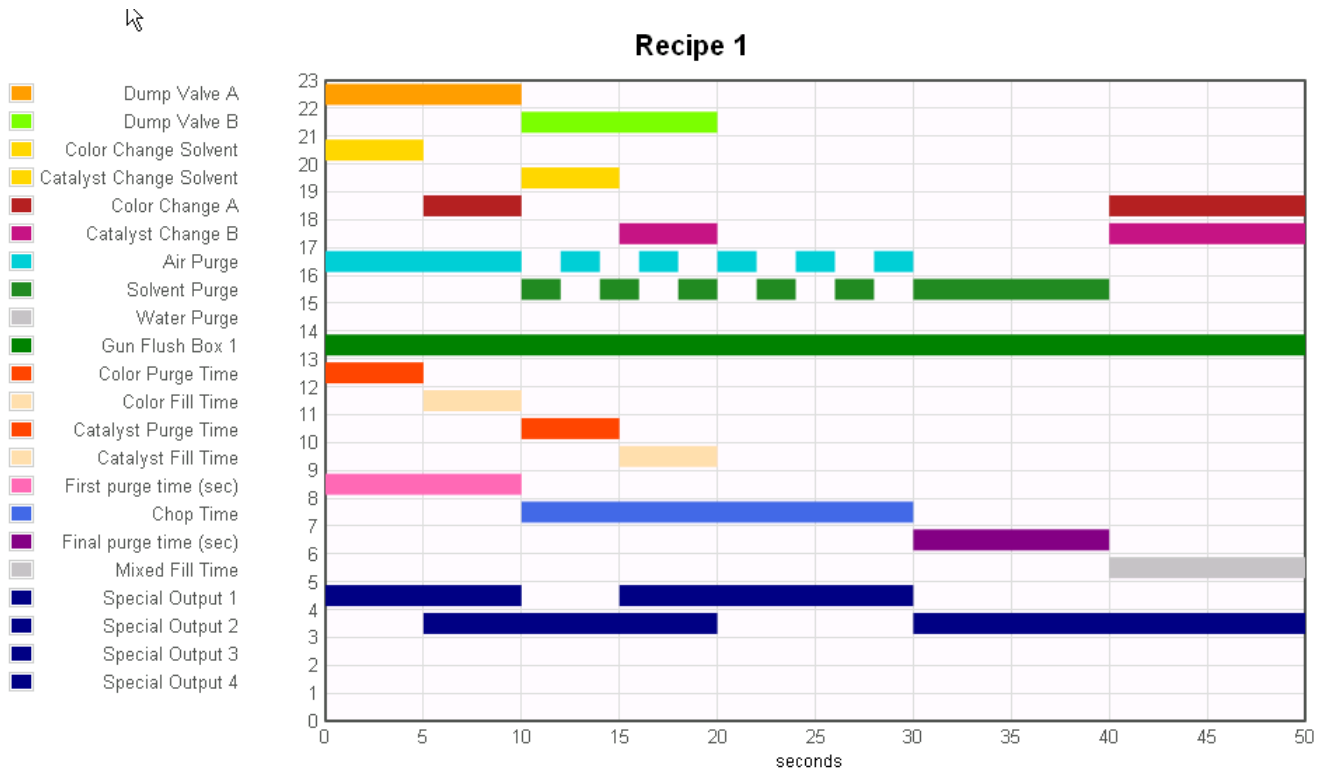


FIG. 46. System Setup Tab, Advanced Screen



Click to create a recipe timing chart. See FIG. 48.

FIG. 47. System Setup Tab, Recipe Screen





**FIG. 48. Sample Recipe Timing Chart**

## Reports Tab

The Reports tab enables you to produce three reports:

- Material Report
- Job Report
- Alarm Report

Select which of the three reports you want to create.


Click the desired output format  CSV  TXT for the report:

- CSV (can be imported into Microsoft Excel).
- TXT (straight text).

Click the Create button  to generate the report.

### Material Report

See FIG. 49. The Material Report compiles VOC and HAP data for all recipes and jobs using a material, and the total amount of material used. The material must be assigned to a valve to be included in the report (see page 25).

Click the Reset button  to begin a new report cycle (usually monthly).

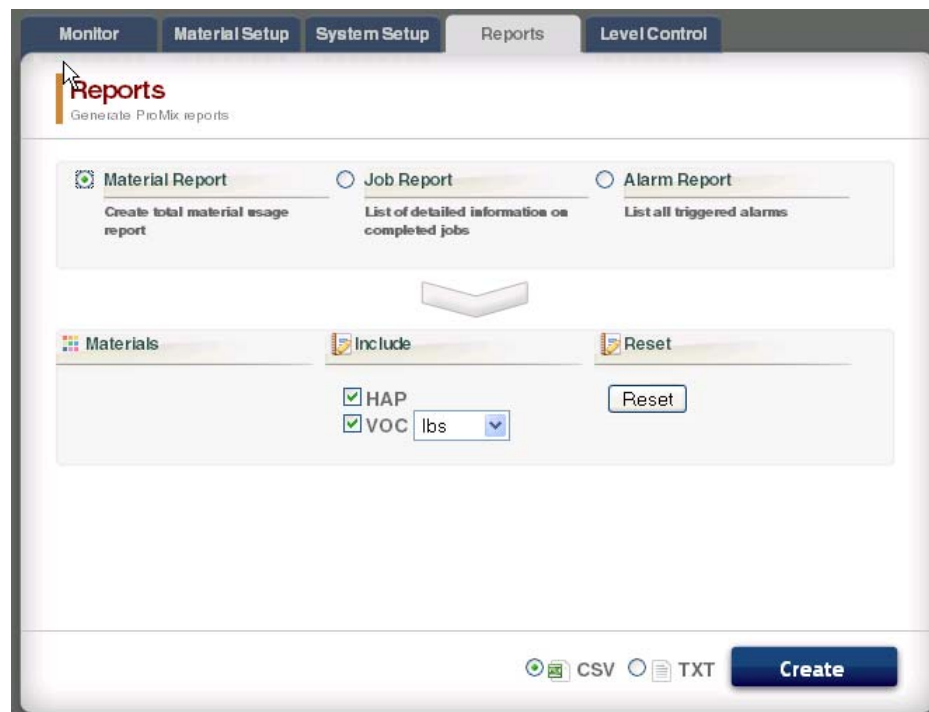



FIG. 49. Material Report Screen

### Job Report

See FIG. 50. The Job Report provides detailed information on all completed jobs within a designated time period.

Select the information desired by clicking on the box to the left of each parameter.

Set the time frame by using the Calendar buttons  to the right of each date box.

**NOTE:** The dates use the day/month/year format.

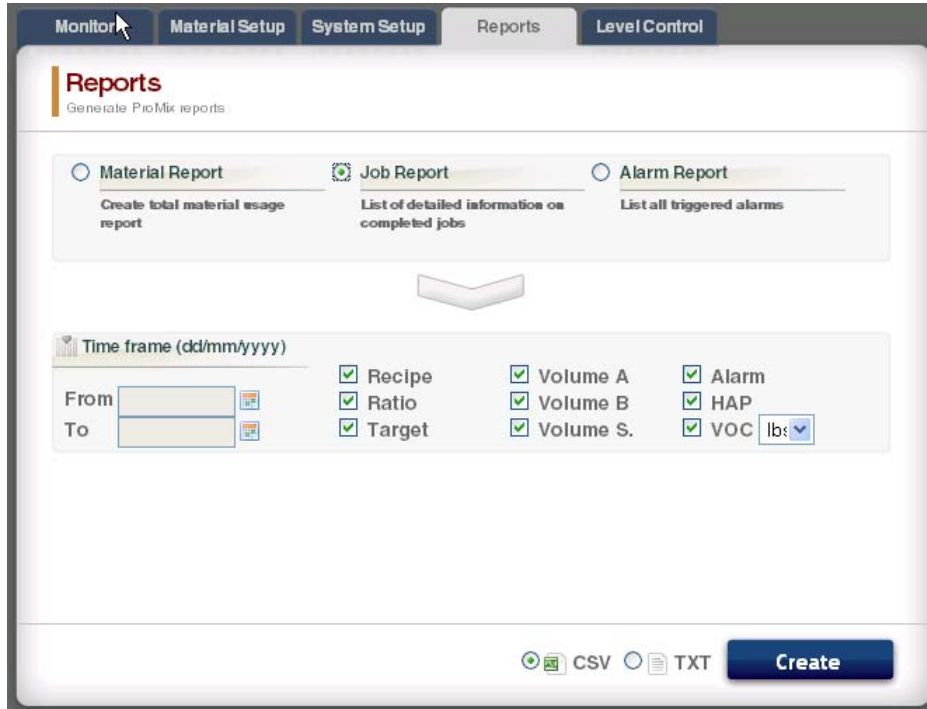



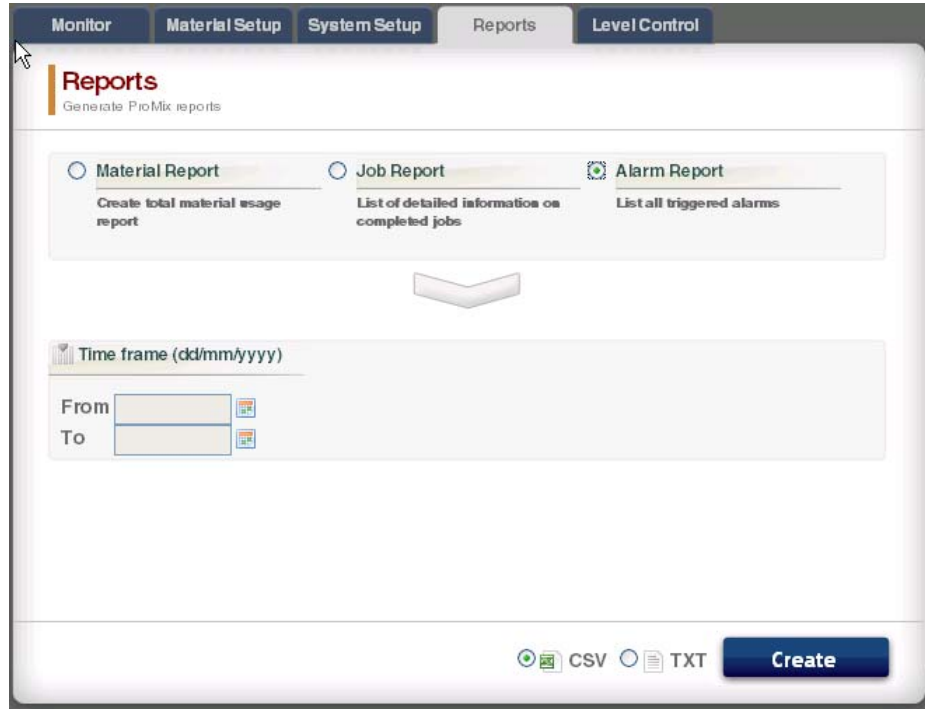
FIG. 50. Job Report Screen

## Alarm Report

See FIG. 51. The Alarm Report lists all alarms triggered within a designated time period.

Set the time frame by using the Calendar buttons  to the right of each date box.

**NOTE:** The dates use the day/month/year format.



Monitor Material Setup System Setup Reports Level Control

### Reports


Generate ProMix reports


Material Report  
Create total material usage report

Job Report  
List of detailed information on completed jobs

Alarm Report  
List all triggered alarms

Time frame (dd/mm/yyyy)

From  

To  

CSV  TXT

FIG. 51. Alarm Report Screen

## Level Control Tab

See FIG. 52. The Level Control Tab allows you to input the supply tank volume of the materials and the level at which an alarm should be triggered.

The alarm function may be turned on or off for each material valve.

Valve	Material	Alarm	Alarm Level	Tank Volume
Color	n/a Part #: n/a	On	0.0 lit	5.0 lit
Catalyst	n/a Part #: n/a	On	0.0 lit	0.0 lit
Flush	n/a Part #: n/a	On	0.0 lit	0.0 lit

**Save**

FIG. 52. Level Control Tab



### Sidebar

See FIG. 53. The Sidebar relates to the EasyKey being monitored. It has four links to related screens:

- Save - saves the current device configuration into a file.

- Restore - restores configurations of the device from a file.
- Copy (Sync Settings)- copies the configuration of this device into other devices.
- Install Firmware - install firmware for the current device (approximately 5 minutes).

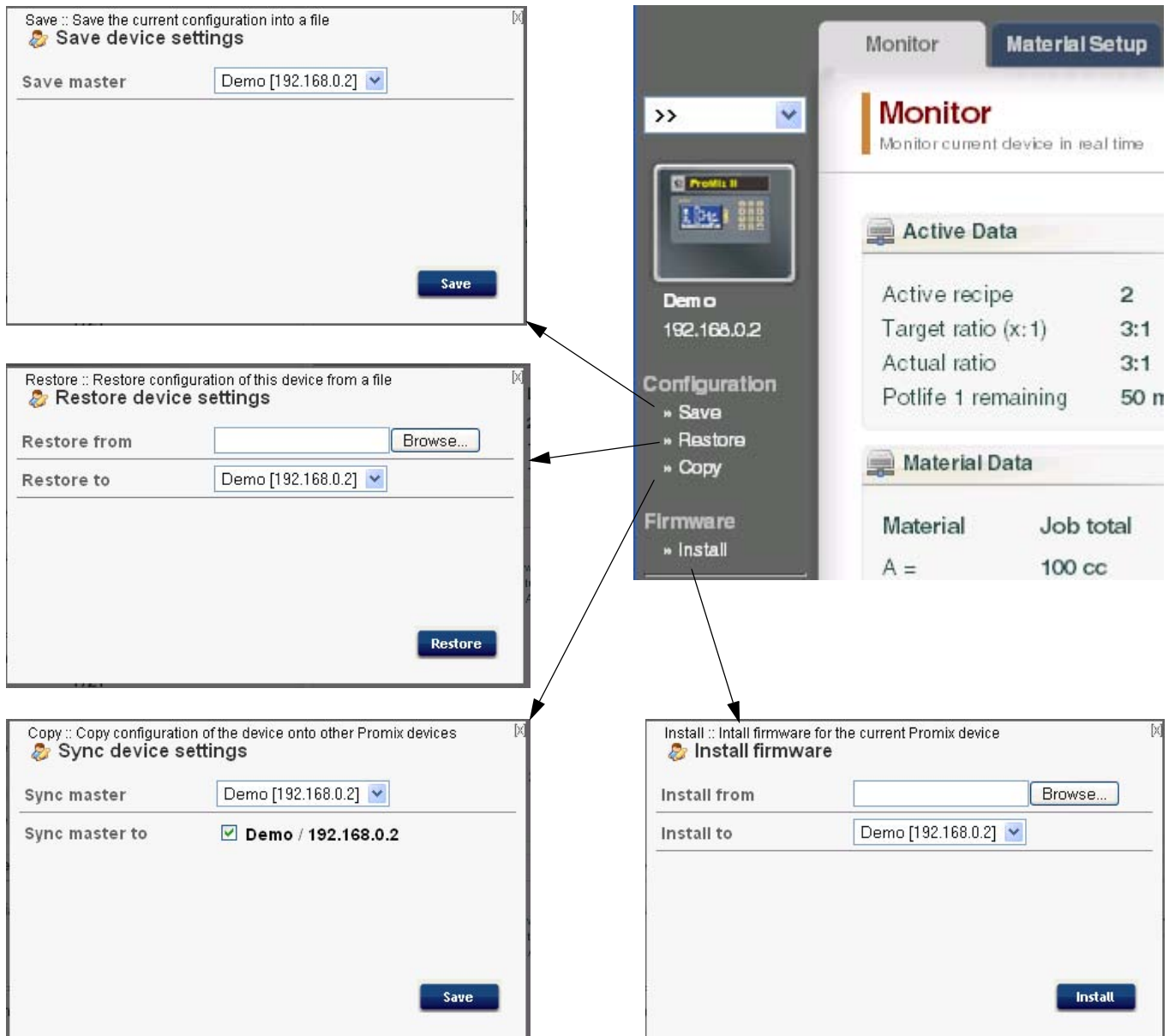




FIG. 53. Sidebar and Related Screens

## Replace AWI Board

						
<ul style="list-style-type: none"><li>• To avoid electric shock, turn off EasyKey power before servicing.</li><li>• Shut off power at main circuit breaker.</li><li>• All electrical wiring must be done by a qualified electrician and comply with all local codes and regulations.</li><li>• Read <b>Warnings</b>, page 3.</li></ul>						

### NOTICE

To avoid damaging circuit board when servicing, wear Part No. 112190 grounding strap on wrist and ground appropriately.

1. Shut off ProMix 2KS power (0 position).
2. Shut off power at main circuit breaker.
3. Open the AWI module.
4. Disconnect the cable (15) and wires (17, 18) from the board (22). FIG. 54.
5. Remove the screws (21) and board (22).
6. Install the new board. Reconnect the cable (15) and wires (17, 18).

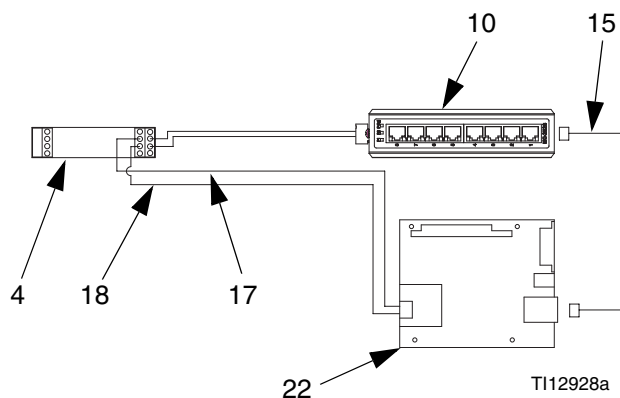
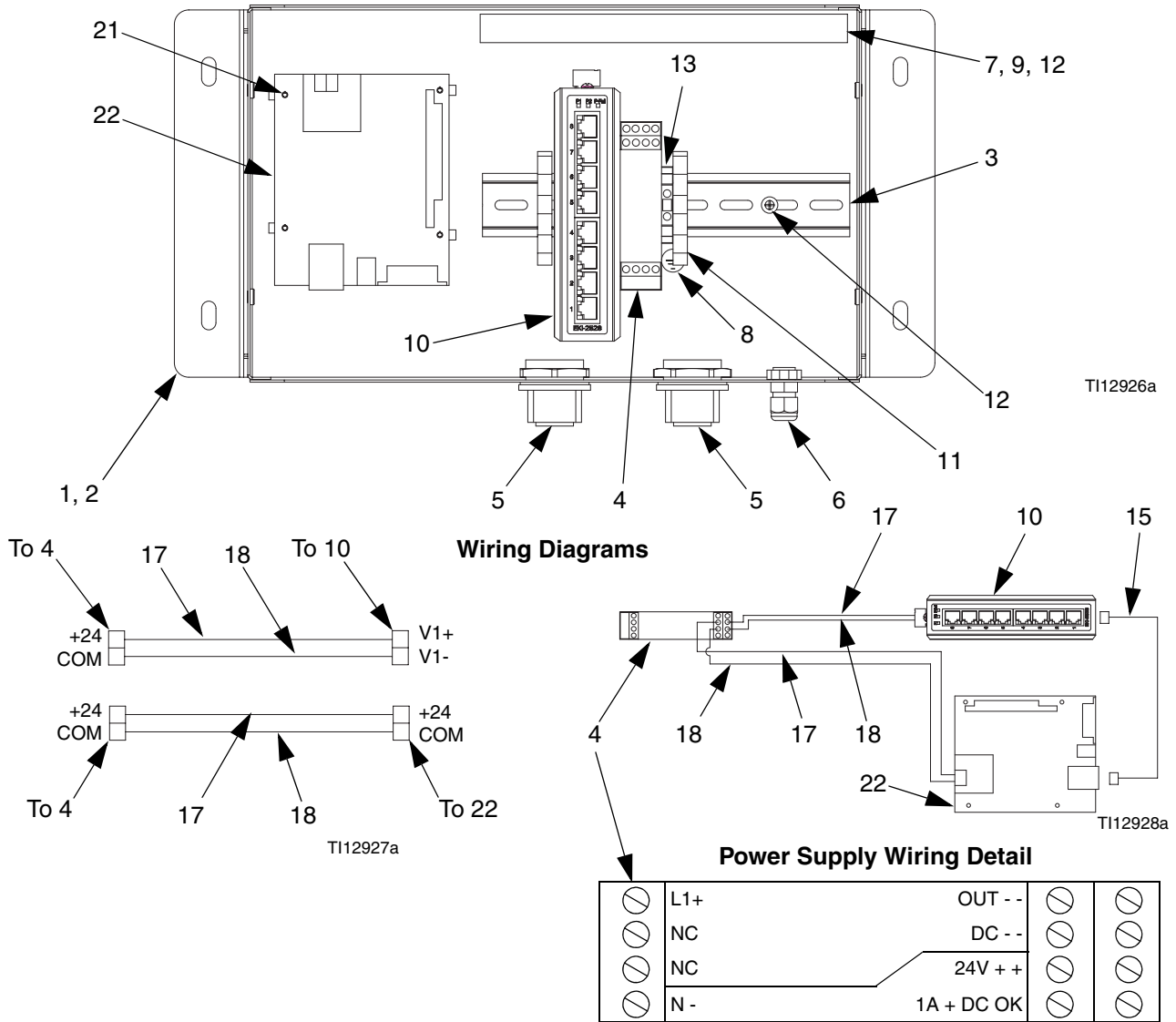


FIG. 54. Replace AWI Board



# Parts

## 15V337 Advanced Web Interface Module

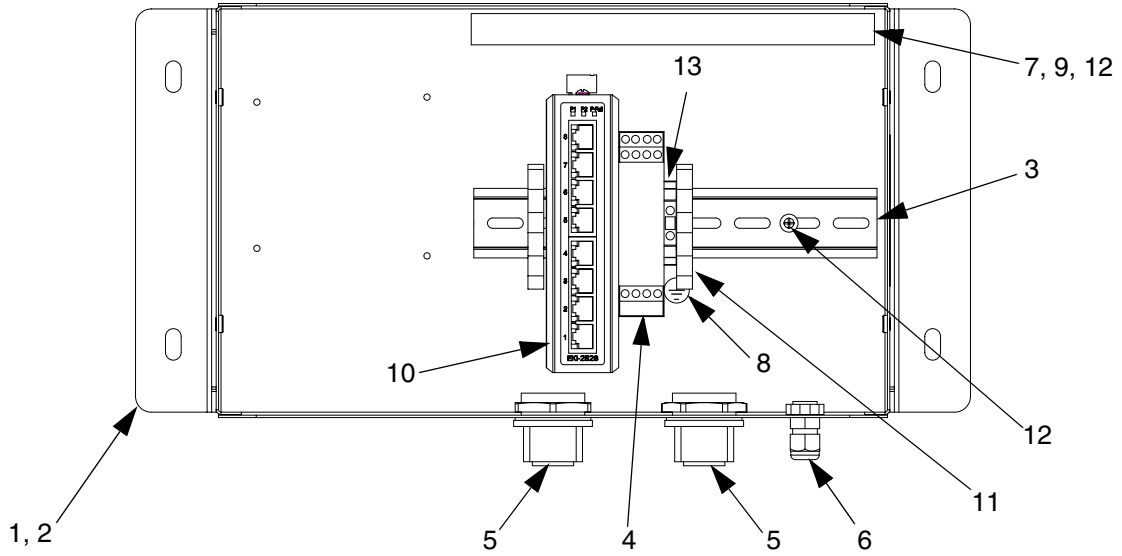


Ref. No.	Part No.	Description	Qty
1	15V339	PANEL, back	1
2	15T752	COVER	1
3	n/a	DIN RAIL	1
4	120369	POWER SUPPLY, 24 Vdc	1
5	15V345	GROMMET, cable entry	2
6	111987	CONNECTOR, strain relief	1
7	n/a	WIREWAY	1
8	186620	LABEL, ground	1
9	n/a	COVER, wireway	1
10	15V342	SWITCH, ethernet	1

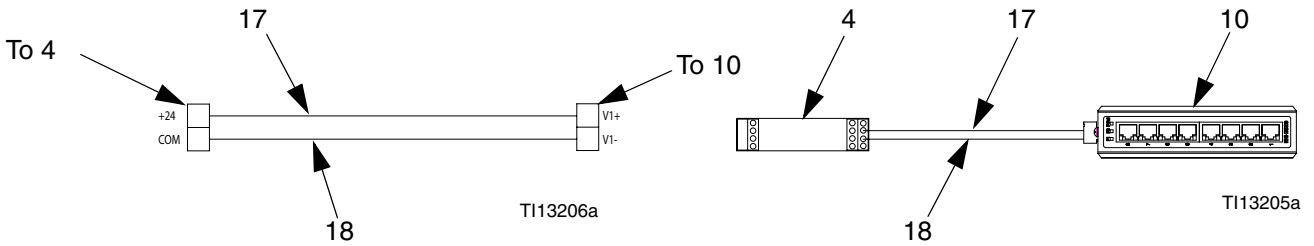
Ref. No.	Part No.	Description	Qty
11	120838	BLOCK, clamp end	2
12	103833	SCREW, machine	4
13	112443	BLOCK, terminal, ground	1
15	121994	CABLE, CAT5	1
17	n/a	WIRE, copper, 16 ga.; 9 in. (230 mm)	1
18	n/a	WIRE, copper, 16 ga.; 9 in. (230 mm)	1
21	15V340	STANDOFF, board	4
22	258355	BOARD, server	1

Parts labeled n/a are not available separately.

# 15V336 Advanced Web Interface Server Hub



## Wiring Diagrams

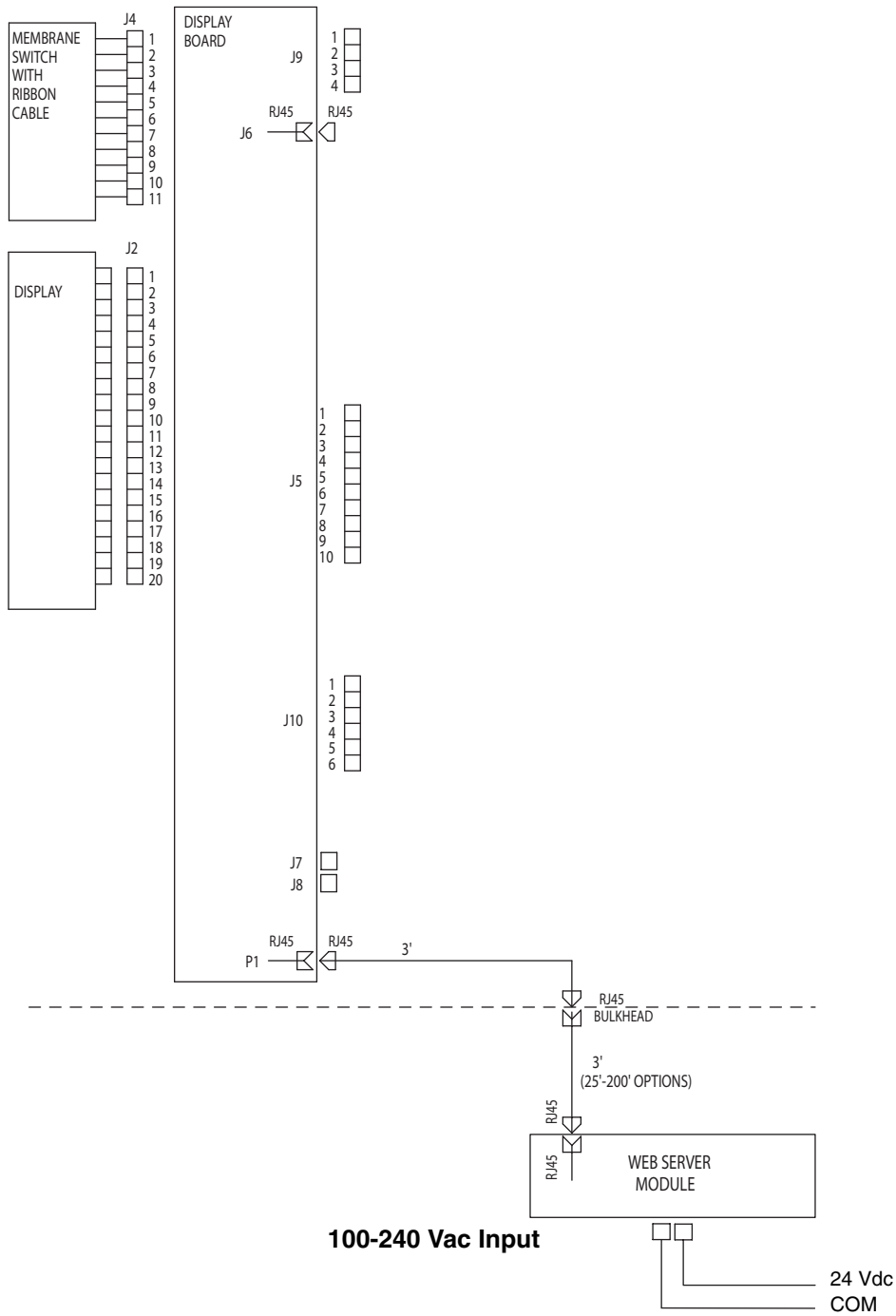


Ref. No.	Part No.	Description	Qty	Ref. No.	Part No.	Description	Qty
1	15V339	PANEL, back	1	10	15V342	SWITCH, ethernet	1
2	15T752	COVER	1	11	120838	BLOCK, clamp end	2
3	n/a	DIN RAIL	1	12	103833	SCREW, machine	4
4	120369	POWER SUPPLY, 24 Vdc	1	13	112443	BLOCK, terminal, ground	1
5	15V345	GROMMET, cable entry	2	17	n/a	WIRE, copper, 16 ga.; 9 in. (230 mm)	1
6	111987	CONNECTOR, strain relief	1	18	n/a	WIRE, copper, 16 ga; 9 in. (230 mm)	1
7	n/a	WIREWAY	1				
8	186620	LABEL, ground	1				
9	n/a	COVER, wireway	1				

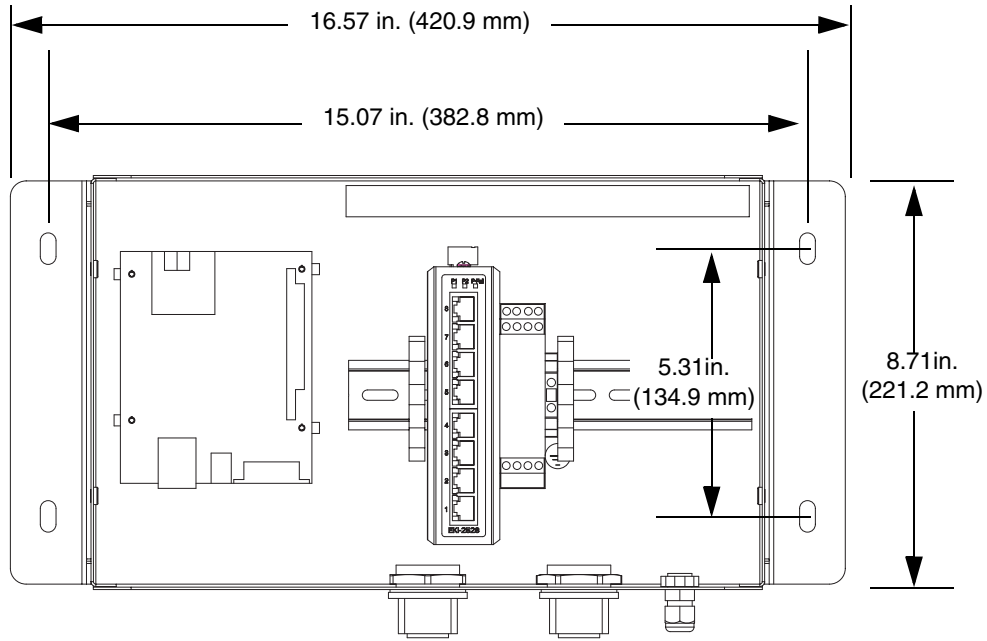
*Parts labeled n/a are not available separately.*

# Electrical Schematic

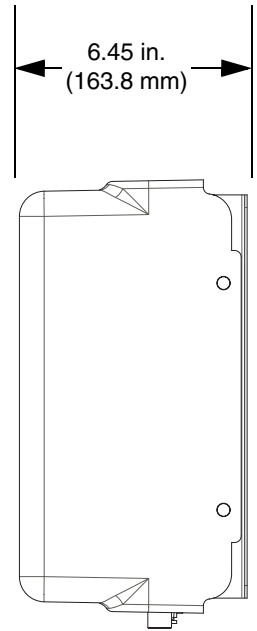
Non-Hazardous Area



# Dimensions



T112926a



T112825a

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