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Section I – Introduction

Introduction

This manual is to be used for the installation and operation of the AccuLoad III-Quad Demonstration Unit and the VLR Simulator.

Product Description

The AccuLoad III-Quad Demonstration Unit is used to simulate the operation of the AccuLoad III-Quad through a PC using the AccuMate's Remote Display feature. Through a PC, the operator can simulate the operation of the buttons on the keypad of the AccuLoad III-Quad.

Also included with the Demonstration Unit is the VLR (Virtual Load Rack Simulator), a Windows-based application designed to simulate the functions of the meter, valve, additives, temperature transducer, pressure transducer, density transducer, and truck grounding and overfill systems. The state-of-the-art simulator is used to demonstrate the functions of the AccuLoad III.

Receipt of Equipment

The demonstration unit is shipped with the following:

- Two Communications Cables
- A 24 volt power supply
- Windows-based AccuMate Diskettes
- Windows-based VLR Diskettes
- Windows-based Application Files for use with the AccuMate and the VLR.

When the equipment is received, the outside packing case should be checked immediately for any shipping damage. If the packing case has been damaged, the local carrier should be notified at once regarding his liability. Carefully remove the unit from its packing case and inspect for damaged or missing parts.

If damage has occurred during shipment or if parts are missing, a written report should be submitted to the Customer Service Department, FMC Measurement Solutions, 1602 Wagner Avenue, Erie, Pennsylvania 16514.

Before installation, the unit should be stored in its original packing case and protected from adverse weather conditions and abuse.

Section II - Installation

System Requirements

The Demonstration unit, AccuMate, and VLR will operate on an IBM PC-compatible (Pentium 90 MHz or better) computer operating in a Windows environment (Windows 95 or later) with at least 4M of memory, one 3-1/2" floppy disk drive, two communication ports, and a mouse. The hard drive should have at least 4M of free disk space.

Installing Cables

Installation of the power supply and communication cables is simple. (See Figure 1 for location of connections.)

1. Connect one end of the communication cable to the VLR communication port on the Demonstration Unit (right-hand 9-pin connector) and the other end to the communication port on the PC that is being used for the VLR.
2. Connect one end of the communication cable to the AccuMate communication port on the Demonstration Unit (Comm Port #1, beside reset button 9-pin connector) and the other end to the communication port on the PC that is being used for the AccuMate.
3. Plug the Power Supply into the 24 Vdc connector (left).
4. The default communication parameters on the AccuMate and VLR are set up to communicate with the Demonstrator (Protocol – Minicomputer LRC, 38400 Baud Rate, Parity 8 Bits None, Display text Default, Base address 1, arm 2 – 2, arm 3 – 3 and arm 4 – 4). The correct PC communication ports will have to be assigned to either to the AccuMate or the VLR.
5. The unit is now ready to be programmed through the AccuMate.

Installing AccuMate

To install the AccuMate program, do the following:

1. Insert AccuMate diskette #1 into the floppy drive (typically the a:\ drive).
2. Click on the "Start" button at the lower left-hand side of the screen.

3. Select "Run" from the popup menu.
4. Type "a:\setup" (without the quotation marks) in the dialog box.
5. Click OK. The installation program will display a series of prompts that guide the user through the installation process.

A message will appear on the screen during the installation process, prompting the user to select a location for the program. A default destination will be suggested. If the default is acceptable, click "Next." Otherwise, specify another destination and folder for the program.

6. When the contents of Diskette #1 have been installed on the destination drive, a prompt will appear, instructing the operator to insert Diskette #2. Remove Diskette #1 from the a:\ drive. Insert Diskette #2, then click OK.
7. The program will automatically continue to install and will prompt the user to select "Finish" when installation is complete.
8. Click on the "Start" button and then select "Programs" from the menu. Select "Windows Explorer," then locate the directory in which AccuMate was installed. Select "AccuMate for AccuLoad III," then double-click on "AccuMate" to launch the program. A shortcut to AccuMate.exe can be established on the Windows desktop, using standard Windows procedures. The shortcut will greatly facilitate program launching.

Remote Display: Bundled with the AccuMate is an application designed to mimic the front panel of the AccuLoad III and allow user interaction as if standing at the actual unit. This application can be launched automatically by AccuMate. The program will inform the AccuLoad III that remote display functionality is required, and start the external application. It will then minimize itself and the remote display will appear. Clicking on the keypad buttons with the mouse will perform the same actions as at the front panel of the AccuLoad III. (It may be necessary to click on CLEAR or ENTER to get the display to draw properly when the AccuLoad III Remote Display is first launched.)

Access the System menu when using the remote display by pressing the "Alt" key and space bar simultaneously.

Section II – Installation

When finished with the remote display, close it by pressing the "Alt" and "F4" keys simultaneously. The AccuMate window will be restored and AccuMate will re-establish communications with the AccuLoad III.

If a power failure occurs or the system crashes, thus preventing the remote display application from exiting normally, the AccuLoad III could possibly continue to direct its display output to the PC. If this occurs, the AccuLoad III keypad and display will not be functional, and the AccuMate will not be able to establish communications since it will still be treating the communications port as a display port. To restore the normal display function and return the AccuLoad III communications port to normal, execute the AL3RemoteDisplay.exe program manually and then exit it normally. The application resides in the directory where AccuMate was installed. Note that the Remote Display program has the same file name in both versions of AccuMate.

Program (VLR) Installation

Note: Be certain to close all other programs before installation.

To install the VLR program:

9. Insert the VLR diskette marked Number 1 into the floppy drive (typically the a:\ drive).
10. Click on the "Start" button at the lower left-hand side of the screen.
11. Select "Run" from the popup menu.
12. Click on "Setup.exe" (an application file). The installation program will guide the operator through the installation process with a series of prompts.
13. A message will appear on the screen during the installation process, prompting the operator to select a location for the program. A default destination will be suggested. If the default is acceptable, click "Next." Otherwise, specify another destination and folder for the program.
14. The program will automatically install and will prompt the user to select "Finish" when installation is complete.

Note: A message may appear toward the end of the installation, informing the operator that certain necessary files are missing and/or outmoded and must be installed. Click "yes" to automatically install these files, then re-insert Disk 1 and begin the installation process once again. The installation should then be completed without additional delay.

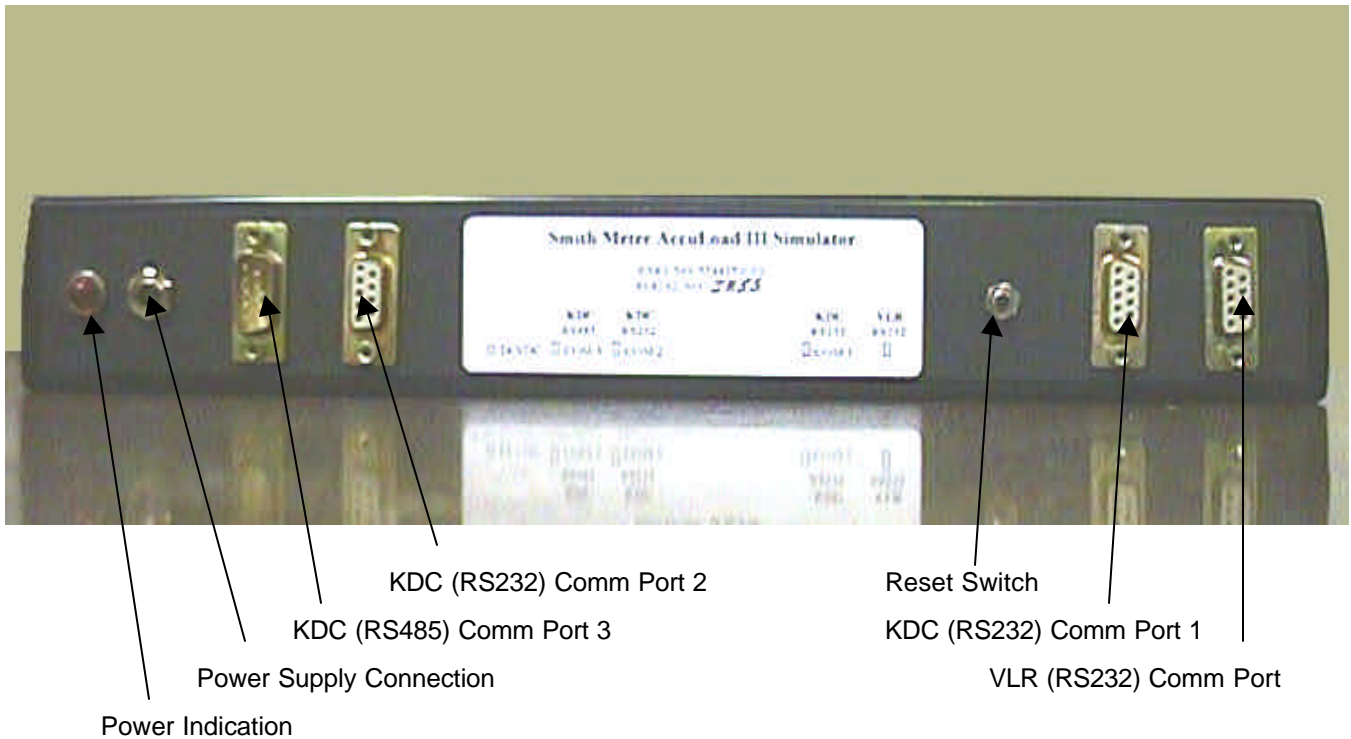
Click on the "AccuLoad III VLR" in the program menu to launch the program and configure for use.

Program File Diskettes: A set of diskettes is provided to program the AccuLoad III-Quad Demonstration Unit to the configurations of the Virtual Load Rack Simulator. The files are as follows:

- Equations for 2 Str & 1-2 Seq.EQQ
- Equations for VLR 1-6 Seq.EQQ
- VLR 4 Straight.A3Q
- VLR 2 Straight & 2 Seq.A3Q
- VLR 1-Seq6.A3Q
- VLR 3 Product Ratio Blender & 1 Str.A3Q
- VLR 4 Product Ratio Blender.A3Q

Copy these files into the AccuMate directory that has been set up. Open the appropriate file for the application that is going to be demonstrated. The equation files have been set up with Boolean equations to operate with the sequential blending applications. The equations activate the product pump when the product block valve is signaled to open.

Section II – Installation



AccuLoad III-Q Demonstrator Wiring Table			
Comm 2 (RS-232)	DB-9 Female	Comm 3 (RS-485)	DB-9 Male
Tx 1	2	Tx + 1	4
Rx 2	3	Tx - 2	5
Gnd 3	5	Rx + 3	8
		RX - 4	9
		Gnd 5	1

Reset

To reset the Demonstration Unit to the original default program, do the following:

1. Turn the power off.
2. Press and hold the reset button.
3. Turn the power on while pressing the reset button.
4. The unit is now reset to the default parameters.

Note: Resetting the Demonstration Unit deletes all customer programming and returns the unit to the factory defaults. It is necessary to reprogram the unit by downloading the prior configuration files from the AccuMate to the Demonstration Unit after resetting.

Note: After resetting, the Demonstration Unit requires a delay for initializing. There is no indication on the unit that it is undergoing the initializing process; however, it will be inoperable for several minutes.

Section III – Related Publications

The following literature can be obtained from the FMC Measurement Solutions Literature Department. This literature is also available for downloading, at no charge, from the FMC Measurement Solutions Web site, <http://www.smithmeter.com>. Please reference the appropriate bulletin number and title when ordering.

FMC Measurement Solutions
1602 Wagner Avenue
P.O. Box 10428
Erie, Pennsylvania 16514

AccuMate for AccuLoad III

Specification.....Bulletin SS06032
Installation/Operation.....Bulletin MN06114

AccuLoad III-Quad

Specification.....Bulletin SS06034
Installation/Operation.....Bulletin MN06125
Operator ReferenceBulletin MN06122
CommunicationsBulletin MN06119L
Modbus CommunicationsBulletin MN06124L

AccuLoad III Upgrade

Specification.....Bulletin SS06033
Installation.....Bulletin MN06115

AccuLoad III-X

Specification.....Bulletin SS06036
Installation/Operation.....Bulletin MN06135
Operator ReferenceBulletin MN06129
CommunicationsBulletin MN06130L
Modbus™ CommunicationsBulletin MN06131L

CIVACON Microrack® Monitor System

Installation/Operation.....Bulletin MN06127

Revisions included in MN06128L Issue/Rev. 0.1 (6/01):
Added wiring chart on page 4

The specifications contained herein are subject to change without notice and any user of said specifications should verify from the manufacturer that the specifications are currently in effect. Otherwise, the manufacturer assumes no responsibility for the use of specifications which may have been changed and are no longer in effect.

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