VeriComm™
monitoring systems

Custom VCOM Control Panels
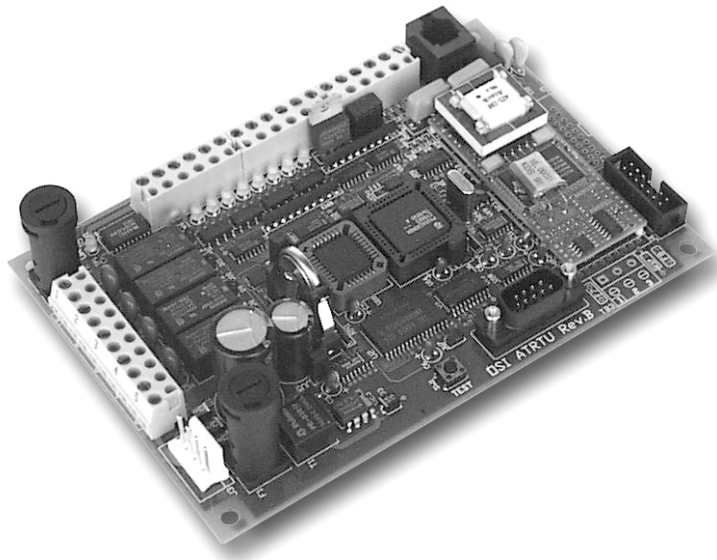
and HyperTerminal Access

ATRTU 100 Board

Introduction

The Orenco Systems, Inc. custom VeriComm™ (VCOM) control panel provides system operators with unparalleled control, maintenance, and management of their onsite systems. System operators can manage multiple alarm conditions reported from onsite systems. Extensive alarm data can be maintained on each alarm occurrence, enabling the operator to track system performance and to ensure regulatory requirements. Alarm conditions can be automatically reported to the appropriate service personnel via numeric pagers.

Operators can also review operating data; adjust system parameters; maintain site, alarm, and user information; and generate various reports on system performance.

VeriComm™ systems are password-protected to ensure that only authorized operators are allowed to make changes. Access levels are assigned with each password.

This manual describes how to use the PC based HyperTerminal program to remotely access or connect directly to custom VCOM panels. The Windows Operating System depicted in the manual may vary from what will actually appear, depending on the version of Windows that is being used. If questions or concerns arise during start-up, you can make an appointment with Orenco's electrical design group, and they will guide you through the start-up process.

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Orenco Systems®
Incorporated

HyperTerminal

HyperTerminal is designed to satisfy your basic communications needs in an easy-to-use product. The user interface is similar to most Windows operating systems.

HyperTerminal is located in the Start Menu under the Accessories option.

To Create a New Remote Connection to a Custom VCOM Panel
When the VCOM panel is installed and accessed for the first time, a new connection from the site must be created. A new connection is created by performing the following steps.

Step 1: Type a name that describes the connection (e.g., project name), select any icon, and then click the **OK** button.

Note ◆

- If the connection description window is not open, click on the **File** menu, and click **New Connection**.

Step 2: Enter the phone number to the panel, and then click the **OK** button.

Note ◆

- Leave the **Area code** box empty.

- Enter phone number exactly how it must be dialed (e.g., if a 9 is required to access an outside line or if the area code is needed for long distance).

Step 3: Click the **Modify** button.
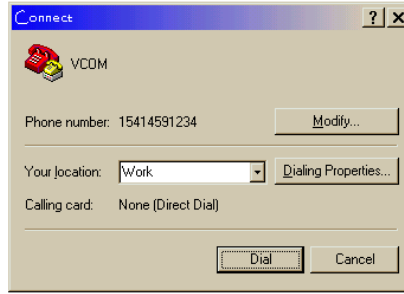
Step 4: Be sure the **Use country/region code and area code** box is <u>NOT</u> checked.

Step 5: Click the **Configure** button.

Step 6: Change the maximum speed to 2400 and click the **OK** button.
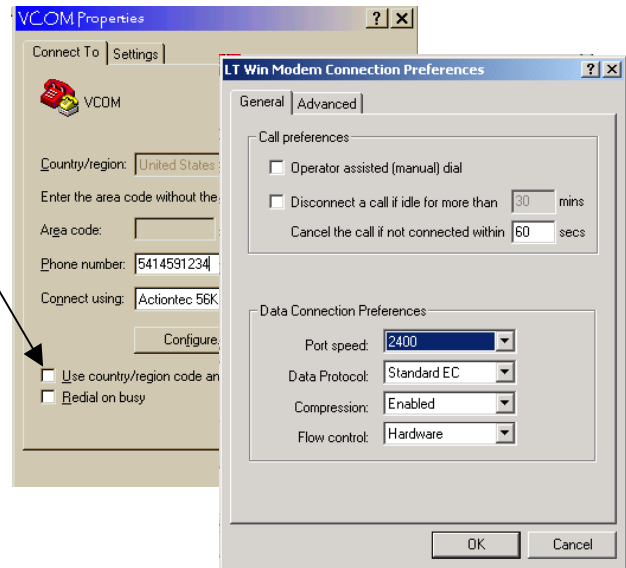
Step 7: Click on the **Settings** tab and change the emulation to VT100 and click the **OK** button.
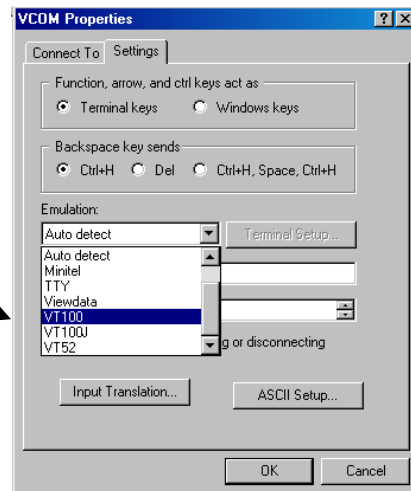
Step 8: Click the **Cancel** button until all of the windows are gone. The HyperTerminal window is now available.

Step 9: On the **File** menu, select **Save**.

Step 10: On the **Call** menu, select **Call,** then click the **Dial** button.

The computer will now establish a connection with the panel. If the login screen does not appear, press the **ESC** key to refresh the screen. (Skip to page 8 of this document.)

VeriComm™ monitoring systems

To Create a New Direct Connection to a Custom VCOM Panel

A null modem cable is needed for the direct connection. Connect one end of the null modem cable to the serial port on the laptop and the other end to the serial port on the telemetry board.

LAPTOP   **VCOM BOARD**

Follow the steps below to directly connect with the VCOM panel.

Note ◆

- The null modem cable can be purchased at your local Radio Shack   store.

Cat.#:950-0193
10ft. AT null modem cable with DB9 female to female connections

- If the laptop does not have a serial port but it does have a USB port, a USB serial adapter can be purchased online at www.keyspan.com.

Part #:USA-19
Keyspan USB Serial Adapter

Step 1: On the **File** menu, select **New Connection**, and then double-click the connection you want to use.

Step 2: Type a name that describes the connection (e.g., project name), select any icon, and then click the **OK** button.

Step 3: Click on the **Connect using** box and select the Com Port the null modem cable is using.
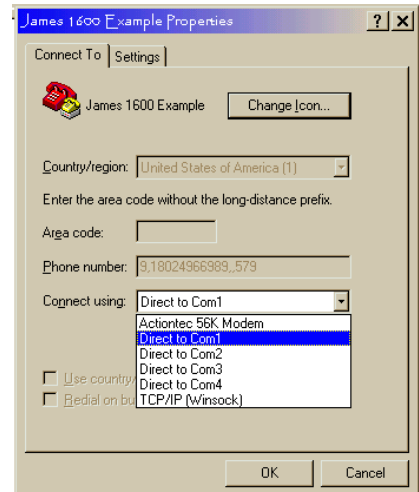
Step 4: Click on the **Configure** box and select 9600 bits per second.

Step 5: Click the **OK** button.
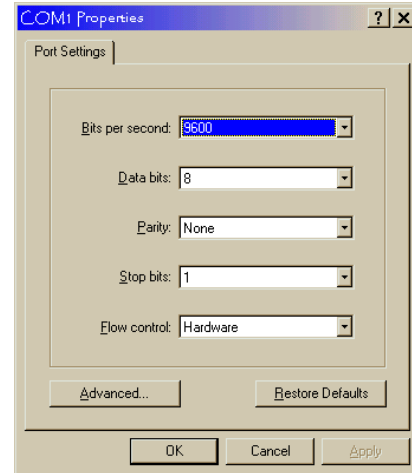
COM1 Properties

Port Settings

Bits per second: 9600

Data bits: 8

Parity: None

Stop bits: 1

Flow control: Hardware

Advanced...   Restore Defaults

OK   Cancel   Apply

Step 7: Click on the **Settings** tab, and change the emulation to VT100 and click the **OK** button.

VCOM Properties

Connect To | Settings

Function, arrow, and ctrl keys act as
○ Terminal keys   ○ Windows keys

Backspace key sends
○ Ctrl+H   ○ Del   ○ Ctrl+H, Space, Ctrl+H

Emulation:

Auto detect   Terminal Setup...
Auto detect
Minitel
TTY
Viewdata
VT100
VT100J
VT52   g or disconnecting

Input Translation...   ASCII Setup...

OK   Cancel

Step 8: Click the **Cancel** button until all of the windows are gone. The HyperTerminal window is now available.

Step 9: On the **File** menu, select **Save**.

Step 10: On the **Call** menu, select **Call**.

The computer will now establish a connection with the panel. If the login screen does not appear, press the **ESC** key to refresh the screen.

Login Screen

Once the computer and VCOM panel have made a successful connection, the login screen will be displayed.

```
ATRTU PASSWORD> XXXXXXXXXXXX
Logged On

ATRTU> menu
```

Login Procedure

To login to the VCOM control system, follow the procedure below:

1. Type **logn,<the user name>,<the password>** and press the **Tab** key.
2. Type **menu**.
3. Press the **Enter** key.

If a mistake is made while entering the User Name or Password, press the **ESC** key until the cursor blinks at the ATRTU Password. No spaces should be used in the user name and password while logging onto the VCOM panel.

Run Mode Menu

This main menu is displayed after a successful login. The name of the current page being displayed will be labeled. The following options are available by pressing the number or letter that corresponds to the desired mode.

```
L0 Ok Std              RUN MODE MENU              V1.00H
<================================================================>

                       O#123456 Q#78910
                        ID:OSI
                           ST:SSF PTRO/

                1) Point Status Displays
                2) Maintenance Log Entry
                3) Maintenance Log Report
                4) Alarm Log Report
                5) Activity Log Report
                6) User Log Report
                7) Change Date/Time
                8) Command Mode
                B) Backup Program
                R) Restore Program

                C) MODEM OFF-LINE (Hang up)
```

Note ◆

- To select a menu option, press the corresponding letter or number next to the desired page (e.g., press **1** for the Point Status Displays page).

- Access to Run Mode Menu options depend on the password level.

Point Status Displays (1)
Current displays of the panel's activities can be viewed. Viewing and adjusting parameters will be done here.

Maintenance Log Entry (2,3)
Any changes or adjustments to the system can be manually logged for future reference.

Log Reports (4,5,6)
All maintenance entries, activity, alarm, and user logs can be viewed, downloaded, and converted to Excel files.

Change Date/Time (7)
The date and time must be accurate in the VCOM panel. To make proper changes follow the example on page 17 of this document.

Command Mode (8)
Logs you off of the current session, so a new User Name and Password can be used to log on.

Backup Program (B)
After adjusting the parameters, the program needs to be backed up.
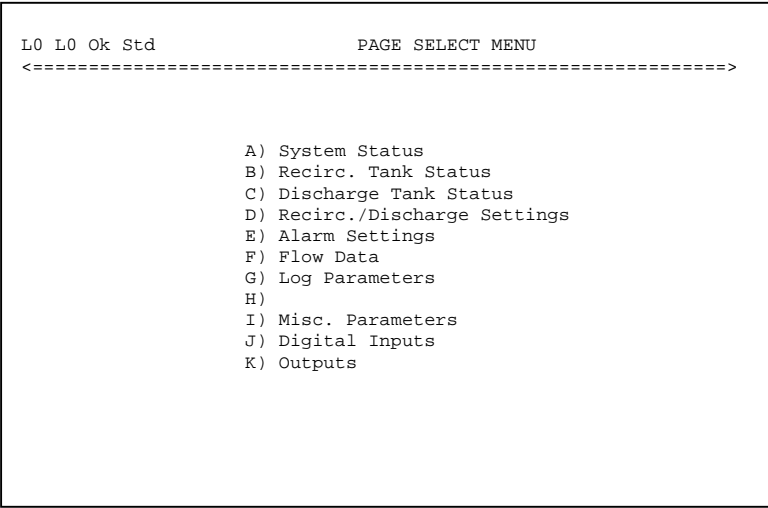
Restore Program (R)
The VCOM panel will revert to the last backed up version of the program.

Modem Off Line (Hang Up) (C)
Disconnects the current session with the controller.

Page Select Menu

The Page Select Menu will be displayed after the Point Status Displays page has been selected from the Run Mode Menu. The Page Select Menu provides access to predefined pages within the custom application. These pages define various aspects of your system (e.g., inputs, outputs, system status, settings, flows, etc.) and are available for your viewing.

```
L0 L0 Ok Std                    PAGE SELECT MENU
<===============================================================>


                    A) System Status
                    B) Recirc. Tank Status
                    C) Discharge Tank Status
                    D) Recirc./Discharge Settings
                    E) Alarm Settings
                    F) Flow Data
                    G) Log Parameters
                    H)
                    I) Misc. Parameters
                    J) Digital Inputs
                    K) Outputs
```

Note ◆

- To select a page, press the corresponding letter next to the desired page (e.g., press **A** for the System Status page).

- If a letter does not have a description then the page is empty and not used in the program.

- Pressing the **ESC** key will return you to the previous page.

- The pages defined on the Page Select Menu are custom to your application.

- Each page contains 16 points. For example, the System Status page will display points 1 through 16.

System Status Page

The System Status page provides an overview of the the entire system, including current alarm status, pump status, etc.

Individual Status Page(s)

Multiple status pages may be defined for your particular system. Individual status pages provide current information for major system components (e.g., recirc. tanks, dosing tanks, discharge tanks, final disposal, etc.).

Settings

Multiple setting pages may be defined for your particular system. Individual setting pages provide for viewing and adjusting the parameters for each application (e.g., timers, pump flow rate, local alarm delay, pager delays, etc.).

Flow Data Page(s)

Multiple flow data pages may exist for your system. These pages provide detailed flow data (e.g., pump cycles today, pump time today, flow today, etc.).

Log Parameters

These pages determine when the system will record the user logs (e.g., monthly, hourly, and weekly). The points contained on these pages are maintained by Orenco.

Inputs & Outputs

Multiple input and output pages may exist for your system. These pages display the status of digital and/or analog inputs and outputs.

Page Definition & Layout

All of the pages under System Status Display have the same appearance. Each of the pages contains the following nine fields:

```
L0 Ok Std        SYSTEM STATUS DISPLAY           TUE 2/20/01  11:51
<================================================================>
   Recirc Tank Status

 Pt#  Description          Value      Sts CurTm      PrevTm    Why?
 17 RecAlarmStatus          OK          A  99:59:59   0:00:02   "OK
 18 RecPumpMode            OFFCYCL      A  0:01:00    0:01:36   Rule
 19 RecLeadPosition         TWO         A  0:00:53    0:03:12   Rule
 20
 21 RecTimerMode           NORMAL       A  99:59:59   0:00:00   Rule
 22
 23 RecActivOffTime        1.5 Min      A                      Rule
 24 RecActiveOnTime        1.5 Min      A                      Rule
 25
 26 Pump#1Status           OFF             0:01:01    0:01:36   Rule
 27 Pump#1Current          0.0 Amps                            P209
 28 Pump#2Status           OFF             0:04:13    0:01:36   Rule
 29 Pump#2Current          0.0 Amps                            P210
 30
 31
 32

 Choices: A(auto) O(on) F(off) C(const) P(point) T(timer) N(num) M(menu)
```

Note ◆

- The point numbers can be toggled on/off by pressing the letter **N** and the **Enter** key.

- To see a specific point, press **P** and the **Enter** key. Then enter the point number and press the **Enter** key.

The following tips apply to all screens within the VCOM System.

- **ESC** key exits the current page.

- **CTRL** & **Z** keys scroll 16 points backward.

- **CTRL** & **W** keys scroll 16 points forward.

- **Tab** Φ moves cursor in sequence between control fields.

- ↵ **Enter** key executes desired command

Page Description (1)
Identifies which page is being viewed (e.g., Recirc. Tank Status).

PT# (2)
Identifies the program point number. Each page includes sixteen programming points. If the point numbers are not displayed, see NOTE.

Description (3)
Describes each program point used.

Value (4)
Displays the current value of the point. This can be displayed as a label (e.g., OK, HiLevel, OFF, OnCycle, etc.), a unit of measurement (e.g., min, gal, amps, etc.), a digital value (e.g., on or off), a date, or time.

Sts (5)
If this column contains a variable, the point can be changed or adjusted.

CurTm (6)
Provides the elapsed time for the current value.

PrevTime (7)
Provides the total elapsed time for the previous point value.

Why? (8)
Defines the reason for the value if available (e.g., rules, inputs, default value, etc.).

Choices (9)
These options are available under the **Sts** column.

Adjusting Point Settings

Most VCOM panels are shipped with standard settings. Parameters may need to be adjusted to meet the system's needs. Parameter adjustments are made by using the Choice Menu located at the bottom of the System Status Display screens.   For example, a pump may need to be turned on or a local audible alarm may need to be turned off, temporarily. A parameter can be adjusted if there is a variable in the **Sts** column.

```
L0 Ok Std         SYSTEM STATUS DISPLAY          TUE 2/20/01  12:14
<================================================================>
   Digital Outputs

Pt#  Description          Value    Sts CurTm       PrevTm   Why?
241 RecircTankPump1         on      A  0:00:08      0:04:48  Rule
242 RecircTankPump2         off     A  0:01:45      0:01:36  OFF
243 DoseTankPump3           off     A  2:19:27      0:04:07  Rule
244 DoseTankPump4           off     A  0:47:20      0:03:49  Rule
245 AlarmLight              on      O  99:59:59     0:00:04  Ovr/Const
246 AudibleAlarm            on      A  0:02:31      0:00:00  Rule
247
248
249
250
251
252
253
254
255
256


Choices: A(auto) O(on) F(off) C(const) P(point) T(timer) N(num) M(menu)
```

WARNING ▲

- Changes to parameters must be made between screen updates or they will not be saved. (This can be avoided by pressing the **Enter** key immediately after a letter is entered in the **Sts** column.)

- Overriding point values can severely affect the operation of your onsite system and will not allow the TriNet Logic to control a particular point.

Note ◆

- If a mistake is made while changing a parameter, press the **ESC** key.

- The point numbers can be toggled on/off by pressing the letter **N** and the **Enter** key.

- To see a specific point, press **P** and the **Enter** key. Then enter the point number and press the **Enter** key.

To Force a Digital Point On

When a point is forced on, the logic for that point is overridden. The point will no longer use the internal program to determine its state. The point will continue to stay on until it is returned to Auto(A) state.

1. Using the **Tab** key or Arrow keys, move the cursor in the **Sts** column to select the point to be overriden.
2. Type **O** and immediately press **Enter** key.

In this example, point #245, "AlarmLight", will be manually turned on. The alarm light on the panel will stay on until an **A** is entered at point #245.

```
L0 Ok Std          SYSTEM STATUS DISPLAY          TUE 2/20/01  12:14
<===================================================================>
   Digital Outputs

Pt#  Description          Value     Sts CurTm       PrevTm     Why?
241 RecircTankPump1        on        A   0:00:08     0:04:48    Rule
242 RecircTankPump2        off       A   0:01:45     0:01:36    OFF
243 DoseTankPump3          off       A   2:19:27     0:04:07    Rule
244 DoseTankPump4          off       A   0:47:20     0:03:49    Rule
245 AlarmLight             off       A  99:59:59     0:00:04    OFF
246 AudibleAlarm           off       F   0:02:31     0:00:00    Ovr/Const
247
248
249
250
251
252
253
254
255
256


Choices: A(auto) O(on) F(off) C(const) P(point) T(timer) N(num) M(menu)
```

Note ◆

- If a mistake is made while changing a parameter, press the **ESC** key.

- The point numbers can be toggled on/off by pressing the letter **N** and the **Enter** key.

- To see a specific point, press **P** and the **Enter** key. Then enter the point number and press the **Enter** key.

To Force a Digital Point Off

When a point is forced off, the logic for that point is overridden. The point will no longer use the TriNet Logic to determine its state. The point will continue to stay off until it is returned to Auto(A) state.

1. Using the **Tab** key or Arrow keys, move the cursor in the "Sts" column to select the point to be overriden.
2. Type **F** and immediately press the **Enter** key.

In this example, point #246, "AudibleAlarm", will be manually turned off. The audible alarm on the panel will stay off until an **A** is entered at point #246.

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- Changes to parameters must be made between screen updates or they will not be saved. (This can be avoided by pressing the **Enter** key immediately after a letter is entered in the **Sts** column.)

Note ◆

- If factory default settings need severe adjustments, the operator needs to contact Orenco Systems, Inc. to implement changes.

- If a mistake is made while changing a parameter, press the **ESC** key.

- The point numbers can be toggled on/off by pressing the letter **N** and the **Enter** key.

- To see a specific point, press **P** and the **Enter** key. Then enter the point number and press the **Enter** key.

```
L0 Ok Dls            SYSTEM STATUS DISPLAY        WED 10/2/02  9:12
<================================================================>
  Recirc Settings

Pt#  Description        Value     Sts CurTm    PrevTm   Why?
 49 RecActivOffTime     60.0 MIN   A                    Rule
 50 RecActivOfnTime     40.0 SEC   A                    Rule
 51
 52 Off Cycle Time      52.0 MIN   C                    Ovr/Const
 53 On Cycle Time       40.0 SEC   A                    40.0
 54 OVROffCyclTime      30.0 MIN   A                    30.0
 55 OVROnCycleTime      40.0 SEC   A                    40.0
 56
 57 P1HighAmpLimit      12.0 AMPS  A                    12.0
 58 P1Low Amp Limit      6.0 AMPS  A                    6.0
 59
 60
 61 Pump 1 Flow         30.0 GPM   A                    30.0
 62
 63
 64


 Choices: A(auto) O(on) F(off) C(const) P(point) T(timer) N(num)
```

To Override an Numeric Point Value

Points that can be overriden are usually found on the setting page and contain a numerical label (e.g., mins, hrs, GPM, etc.). Overriding a numeric value will cause the logic to adjust and implement changes.

1. Using the **Tab** key, move the cursor in the **Sts** column to select the point to be overriden.
2. Type **C** and immediately press the **Enter** key.
3. Enter the new constant value, press the **Enter** key.

In this example, point #52, "Off Cycle Time", will be changed from 60.0 minutes to 52.0 minutes.

```
L0 Ok Std        SYSTEM STATUS DISPLAY          TUE 2/20/01  12:36
<====================================================================>
   Digital Outputs

Pt#  Description         Value    Sts CurTm      PrevTm     Why?
241 RecircTankPump1      off       T  0:01:03    0:00:38    Rule
242 RecircTankPump2      off       A  0:04:15    0:01:36    Rule
243 DoseTankPump3        off       A  2:41:10    0:04:07    Rule
244 DoseTankPump4        off       A  1:09:03    0:03:49    Rule
245 AlarmLight           off       A  0:21:25    0:00:11    OFF
246 AudibleAlarm         off       A  0:24:14    0:00:00    Rule
247
248
249
250
251
252
253
254
255
256

Enter Override Time (hh:mm or xxx secs):  120
Choices: A(auto) O(on) F(off) C(const) P(point) T(timer) N(num) M(menu)
```

WARNING ⚠

- Changes to parameters must be made between screen updates or they will not be saved. (This can be avoided by pressing the **Enter** key immediately after a letter is entered in the **Sts** column.)

Note ◆

- If factory default settings need severe adjustments, the operator needs to contact Orenco Systems, Inc. to implement changes.

- If a mistake is made while changing a parameter, press the **ESC** key.

- The point numbers can be toggled on/off by pressing the letter **N** and the **Enter** key.

- To see a specific point, press **P** and the **Enter** key. Then enter the point number and press the **Enter** key.

To Override a Point for a Specified Time

This procedure overrides the logic and changes the value of a point for a specified period of time and then returns it to the previous value. This can be used for both digital and numeric values.

1. Using the **Tab** key or Arrow keys, move the cursor in the **Sts** column to select the point to be overriden.
2. Type **T** and immediately press the **Enter** key.
3. Type **O** (on), **F** (off), the desired numeric value or the label, and press the **Enter** key.
4. Enter the length of Time (if seconds are needed, enter the number of seconds, such as, 120); if minutes or hours are needed, enter value with a colon, (such as, HH:MM); then press the **Enter** key.

In this example, point #241, the "RecircTankPump1", will be turned on for 120 seconds; then it will revert back to its auto value.

System Status Menu

A point can be evaluated in detail using the menu option on the choices. The rules for the point can be displayed. The type of information presented is useful for various troubleshooting procedures. The cursor must be placed in the **Sts** column of the point for evaluation. Common functions are as follows:

```
L0 Ok Std        SYSTEM STATUS DISPLAY         TUE 2/20/01  16:22
<=================================================================>
   System Status

 Pt#  Description          Value     Sts CurTm      PrevTm    Why?
   1 AlarmStatusRec        LwlLvl     M_ 99:59:59   0:00:04   P17
   2 PumpModeRec             OFF         0:01:10    0:01:36   P18
   3
   4 RecFlowToday         14769 Gal                          P91
   5
   6 AlarmStatusDose         OK         99:59:59    0:00:56   P33
   7 PumpModeDose        PUMPOFF         0:42:28    0:03:53   P36
   8
   9 DoseFlowToday        1437.0 Gal                         P107
  10
  11 AlarmStatGrease         OK         99:59:59    0:00:00   "OK
  12
  13 AlarmStatSeptic         OK         99:59:59    0:00:00   "OK
  14
  15
  16


 Choices: A(auto) O(on) F(off) C(const) P(point) T(timer) N(num) M(menu)
```

Note ◆

- If a mistake is made while entering a choice, press the **ESC** key.

- The point numbers can be toggled on/off by pressing the letter **N** and the **Enter** key.

- To see a specific point, press **P** and the **Enter** key. Then enter the point number and press the **Enter** key.

To View Details of a Specified Point

1. Using the **Tab** key or Arrow keys, move the cursor in the **Sts** column to select the point to be evaluated.
2. Type **M** in the **Sts** Column and immediately press the **Enter** key.

The current value of the selected point is displayed.

```
L0 Ok Std                SYSTEM STATUS MENU
<=================================================================>


    Point# 1 (AlarmStatusRec) is now:      LowLvl

    A) Explain the Point Value

    B) Page Select Menu              K) Input/Output Display
    C) Time Program Display          Q) Alarm Log
    D) Date Program Display          S) Activity Log
    E) Optimizer Display             U) User Log
    F) Rule Display
    I) Change Time/Date
    J) PID Logic Display
    W) Sequencer Display

    R) ATRTU Run Mode Menu


```

Note ◆

- If a mistake is made while entering an option, press the **ESC** key.

- Pressing the **ESC** key at anytime will return to the previous screen.

Explain the Point Value (A)

This option will describe the program logic that is currently responsible for the point's value. All other value possibilities are listed.

```
POINT VALUE EXPLANATION
=======================

THU 3/1/01   11:34 Std

Point# 1 (AlarmStatusRec) is now:      LowLvl
 DUE TO Rule 119




Logic that exists for this point:
                          Rule Changes Point
                            Used by Rule
                       Point Definition Default






                    Press any key to continue
```

Note ◆

- If no data is available, a message of "No Data to Report" will be displayed.

- Pressing the **ESC** key at anytime will return to the previous screen.

Rule Display (F)

The rules for the point can be displayed. The rule controlling the point will be displayed first. The other rules that apply to the point can be displayed by repeatedly pressing the **Enter** key.

```
L0 Ok Std                 CONTROL RULE SUMMARY
<================================================================
===========>
POINT:  1 (AlarmStatusRec) {LowLvl  }   RULE: 119 {true}
 -- IS --
  "LowLvl
 -- IF --
 P35    (BottomFloat) {OK}   =  "OK
 -- AND --
 P179    (RO) {off}  =  OFF










LIST RULE # (1-256): 0
```

Note ◆

- If no rules are controlling a point, a message of "No Rule Applies!" will be displayed.

- Pressing the **ESC** key at anytime will return to the previous screen.

Change Time/Date (I)

The time and date are used in the programing, so it is necessary for the VCOM panel to have the correct time and date. The clock is 24-hour and does not require AM or PM.

```
L0 Ok Std                    SYSTEM DEFINITIONS
 <================================================================>




                                   Current Date:  2/21/01
                                   Current Time:  15:42
                          Standard/Daylight Time(S,D):  S
```

Note ◆

- TriNet's date format is mm/dd/yy.

- The clock must include the colon between the hour and minutes.

- Define whether the current setting is standard time (S) or daylight savings time (D).

- Press the **Tab** key to switch between fields.

- Press the **Enter** key to save the changes.

Input/Output Display (K)

These pages will display the current values for the analog/digital inputs and outputs.

```
ATRTU  V1.00H  Input/Output Report    2/28/01  10:18

 TB1   Description      Status      TB2   Description      Status
  1    AI1              0.0          1    Pump             off
  2    AI2              0.0          2    AlarmLight        off
  3    AI3              0.0          3    AudibleAlarm      off
  4    AI4              0.0          4    none
  5,6  Alg RET                       5    Output Relay Common
  7    5vdc Sensor Pwr
  8    24vdc Sensor Pwr
  9    RO Float         off
 10    Off Float        off
 11    HLA/On Float     off
 12    DI4              off
 13    Push To Silence  off
 14    Aux Contact      off
 15    DI7              off
 16    DI8              off
 17,18 Dig RET



           Press ESC to cancel, or any other key to continue
```

Logs (Q,S,U)

These pages will display the activity log, alarm log, or user log.

The activity log will report input or output activity with a date and time stamp. To view an activity log, the cursor must be on the digital input/output to be monitored before entering the System Status Menu.

The alarm log will report any PC board failures (e.g., low battery, power failures).

The user log is where the programming data is reported (e.g., level alarms, daily pump run times). The user logs will be separated into individual pages. This menu is where user log numbers can be determined and viewed before downloading.

```
TRINET  V4.16E  ACTIVITY LOG REPORT                 2/20/01  16:53

                   POINT 245 (AlarmLight) ACTIVITY DATA

ACTIVITY logged:               Start    Start   End     End
Cause of Activity    Item  Value  Date    Time    Date    Time
PT-ON   ,AlarmLight  245    on  2/20/01 12:14:40 2/20/01 12:14:51












          Press ESC to cancel, or any other key to continue
```

Note ◆

- If no data is available to report from the logs, a message of "No Data to Report" will be displayed.

- Pressing the **ESC** key at anytime will return to the previous screen.

Maintenance Log

Any changes or adjustments to the system can be manually logged for future reference.

```
L0 Ok Std                    RUN MODE MENU                 V1.00H
<===============================================================>

                        O#123456 Q#78910
                          ID:OSI
                              ST:SSF PTRO/

                   1) Point Status Displays
                   2) Maintenance Log Entry
                   3) Maintenance Log Report
                   4) Alarm Log Report
                   5) Activity Log Report
                   6) User Log Report
                   7) Change Date/Time
                   8) Command Mode
                   B) Backup Program
                   R) Restore Program

                   C) MODEM OFF-LINE (Hang up)


```

Entering Maintenance Notes

1. Press **2** from the Run Mode Menu.
2. Type the desired note.
3. Press the **Enter** key.

```
L0 Ok Std               MAINTENANCE LOG
<=============================================================>




              User Name: sammyT
              Date/Time: 2/8/01  1:26:18
                  Notes: everything looks OK




```

Note ◆

- Notes cannot be over 50 characters.

Viewing the Maintenance Log Report

1. Press **3** from the Run Mode Menu.
2. Select **A** for Report Format.
3. Select **A** for Transmission Format.
4. Press the **Enter** key.
5. Type **Y** to pause after each screen.
6. Press the **Enter** key to generate report.

```
TRINET  V4.20M  MAINTENANCE LOG                  2/23/01  14:41

Date     Time     User name     Notes
2/1/01   12:47:36 OSI           Recirc OVRTimer on/off to 75min/60sec
2/8/01   11:26:18 sammyT        everything looks OK












              Press ESC to cancel, or any other key to continue
```

Retrieving Logs

To download various logs (i.e., user, alarms, or activity) from the panel, follow the steps below.

```
L0 Ok Std                    RUN MODE MENU              V1.00H
<===============================================================>

                        O#123456 Q#78910
                          ID:OSI
                              ST:SSF PTRO/

                 1) Point Status Displays
                 2) Maintenance Log Entry
                 3) Maintenance Log Report
                 4) Alarm Log Report
                 5) Activity Log Report
                 6) User Log Report
                 7) Change Date/Time
                 8) Command Mode
                 B) Backup Program
                 R) Restore Program

                 C) MODEM OFF-LINE (Hang up)
```

To Retrieve a Log

1. Press the desired report number from the Run Mode Menu (i.e., 4, 5, or 6).

```
L0 Ok Std           USER LOG SUMMARY
<======================================================================>


            1) Alarms                  9)
            2) Recirc. FlowData       10)
            3) Disch FlowData         11)
            4)                        12)
            5)                        13)
            6)                        14)
            7)                        15)
            8)                        16)







            Enter the User Log# (1-16):
```

2. Select the desired report that you would like to retrieve by pressing the corresponding number from the menu option.

```
L0 Ok Dls                     ACTIVITY LOG REPORT
<======================================================================>




        Report for which point (1-480 or 0 for all)? 1


             Report format (A for ASCII, D for DIF)? D


Transmission format (A for ASCII, X for X-Modem)? X
```

Note ◆

* **The file will be downloaded to the specified path with the specified file name.**

* **If the file is saved in a .txt format, then it can be easily accessed with any text editor (e.g., MS Word, WordPad, etc.).**

* **If the file is saved as a .dif format, it can be easily accessed in Excel.**

* **Once the "Start X-modem Transfer" prompt appears, the system allows the user 1 minute to click on the Receive File.**

3. Type the point/log number, press the **Tab** key.
4. Type **A** for an ASCII report format (for text editor)* or **D** for a DIF report format (for excel file)*; then press the **Tab** key.
5. Type **X** for X-Modem transmission format.
6. Press **Enter** key.

You will be prompted to start the transfer.

7. On the **Transfer** menu, click on **Receive File***.
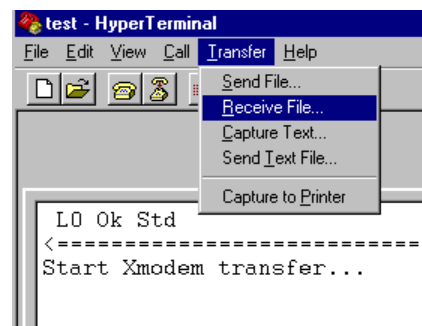
8. **Enter a path** on your local drive to receive the report (e.g., C:\Data).
9. Select **Xmodem** from the receiving protocol option.
10. Click on the **Receive** button.
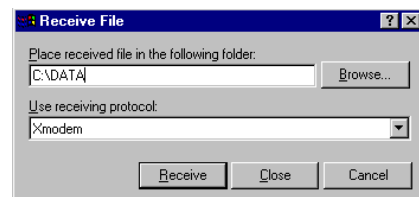
11. **Enter a file name** (e.g., recircdata.dif)*.
12. Click on the **OK** button.