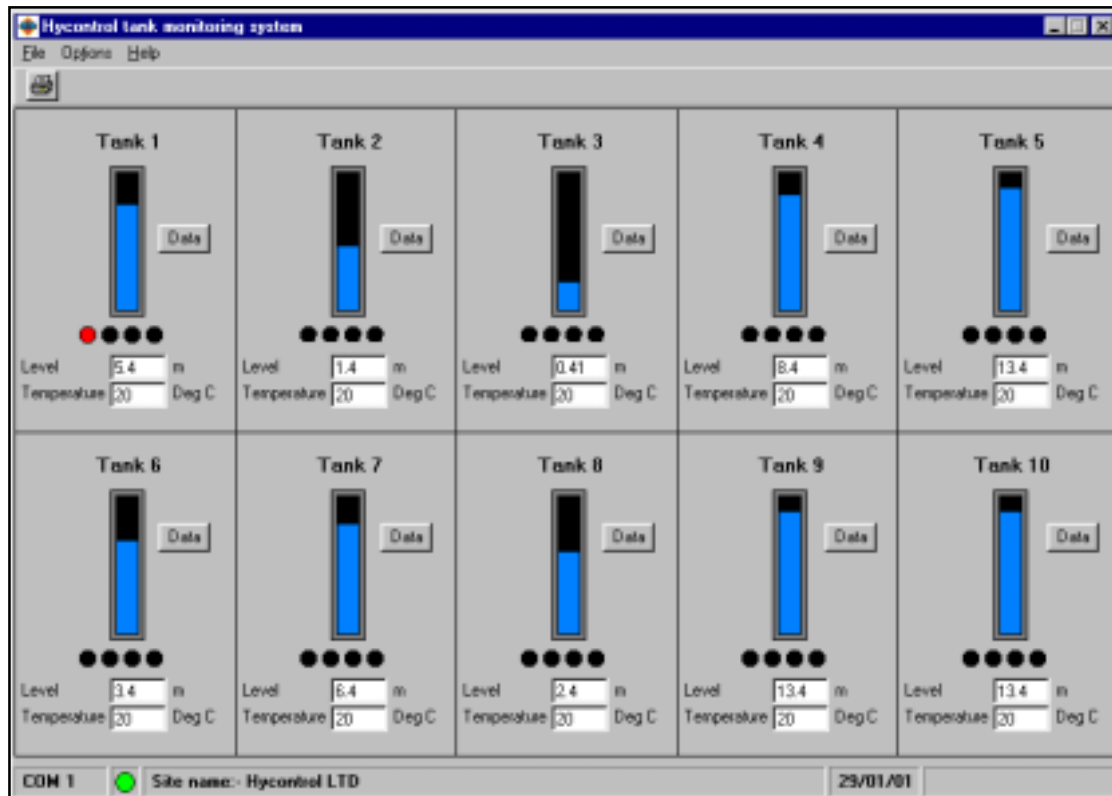


Hycontrol Tank Monitor Software



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1. Notices

This manual is provided “as is” and is subject to change without notice. Hycontrol Limited makes no warranty of any kind with regard to this manual, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. Hycontrol Limited shall not be liable for any errors or for incidental or consequential damages in connection with use of this manual.
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2. Introduction

This manual contains details of how to install and run the Hycontrol Tank Monitor System software onto a PC running either Microsoft Windows 95® or Windows 98® operating system.

2.1 Hardware requirement

The minimum requirement is a PC capable of running the Microsoft Windows 95® or Windows 98® operating system. With a serial port which can be used to connect to the Hycontrol Reflex / Scanflex instrument, via an Amplicon Model 2089F (RS232 / RS485) interface converter.

(See Appendix A for wiring diagram.)

2.2 Installing the software

The software acts purely as a visual display for the attached instrument. Whatever settings you change will not have any effect on the programming of the instrument.

To install the Hycontrol Tank Monitor:

1. Switch on your computer.
2. Insert the Hycontrol Tank Monitor CD.
3. In the taskbar, click on **Start**.
4. Click on the **R**un menu choice.
5. Navigate to your CD drive using browse.
6. Select the **S**etup file located in the root directory of the Hycontrol CD.
7. Click on **O**pen then **O**K.
8. Then follow the on screen instructions.

2.3 Starting the program

Before you begin: Make sure Hycontrol Tank Monitor software is installed (Step 2.2).

To start the Hycontrol Tank Monitor running

1. In the taskbar, click on **Start**.
2. Select **P**rograms then **H**ycontrol from the menu options.
3. Then click on **T**ank Monitor.

2.4 Running the program for the first time

Before you begin: Make sure Hycontrol Tank Monitor system has been launched (Step 2.3).

After a short while you will be presented with the following dialog box requesting you to create a new password.



Figure 2.1:- Create new password dialog box

You should select a password that you can easily remember. The password can be a mixture of any alphanumeric characters and numbers. Type in a password into the enter password textbox and then retype the same password in the reconfirm password textbox.

e.g. In the enter password box type **HYCONTROL**
In the reconfirm password box type **HYCONTROL**

Then click on Ok to remove the dialog box.

Note:- that the password is case sensitive.

2.5 Logging off (Program exit)

Click on **F**ile and then **E**xit to display the following exit message.

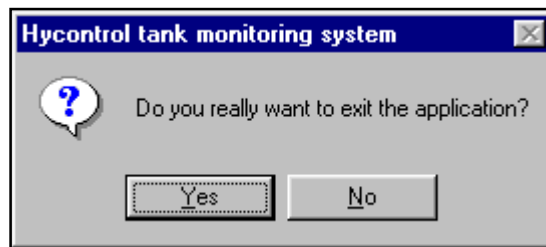


Figure 2.2:- Log out dialog box

Click on **Y**es to confirm you are exiting the application.

2.6 Logging on

Before you begin: Make sure you have a Scanflex instrument attached with the Tank Monitor EPROM fitted. The instrument should be correctly programmed and monitoring tanks. Start the Tank Monitor program running. (Step 2.3)

The following Login dialog box is automatically displayed.

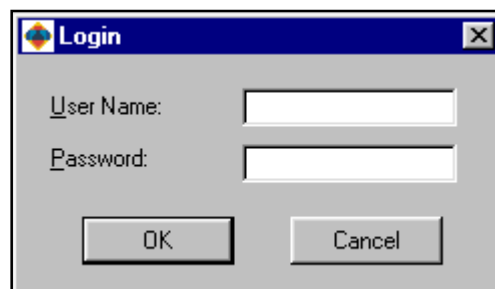


Figure 2.3:- Login dialog box

The user name text box will display whatever user name was entered into the computer when the Windows operating system was first installed. This can be changed if required.

The following dialog box is displayed and the software automatically starts checking via the serial port to see if an instrument is attached.

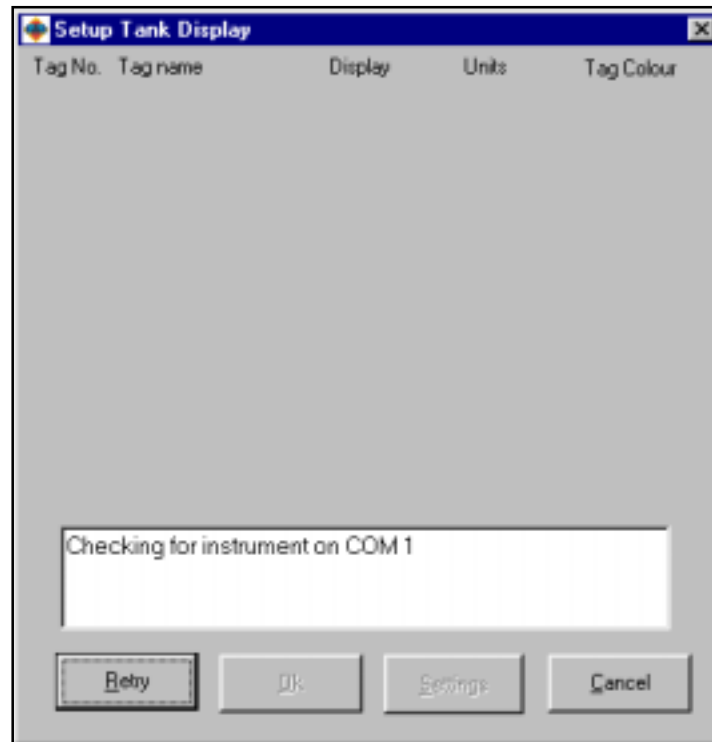


Figure 2.4:- Setup tank display trying to auto detect instrument.

If an instrument is attached via COM1, as each point of measurement is detected the default tank name, application type, application units and tank colour will be displayed. This information cannot be changed until all of the points of measurement have been detected and the **Ok** button is enabled.

If no instrument is detected then the **Settings** button will be enabled allowing you to select a communications port from COM1 to COM8. Change the setting to the appropriate port and then click on **Ok** to remove the Communication setup dialog box. Click on **Retry** to start re-searching for the instrument. As each instrument point is detected a message will be displayed in the message box and a tank will be displayed on the screen.

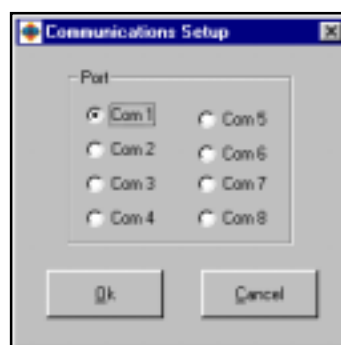


Figure 2.5:- Communication port setup screen

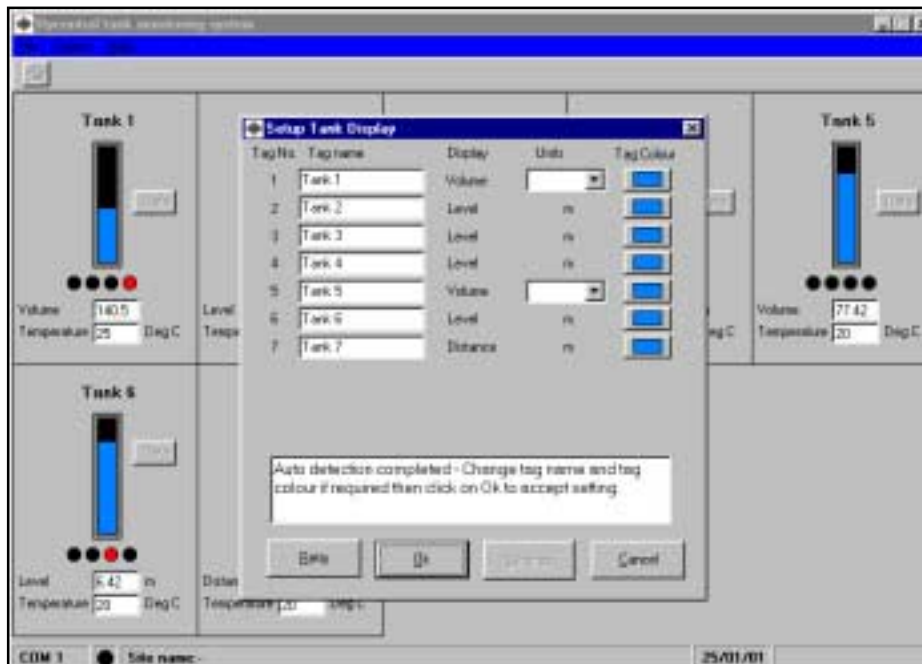


Figure 2.6:- Screen dump showing 7 scanned points.

The above figure 2.6 shows a variety of tank configurations, this is not from a typical application but demonstrates what would be displayed for points set in Volume, Level or Distance mode. If the instrument is programmed for Level or distance then the units that are displayed are determined by the instruments settings. If the instrument has been programmed for volume, the instruments display is not configured for any specific units so the Tank Monitor software allows you to pick your own from a drop down list. It will then display the chosen units until they are changed by the user.

When all points have been detected the Ok button is enabled, at this point you are able to change the tank name and tank colour. If any points are programmed for volume then a variety of units can be selected from the appropriate drop down box.



Figure 2.7:- Selecting units for a volume application

After making any required changes to the Tag name, Tag colour or units (if applicable) click on Ok to accept them.

2.7 Overview of Menu Options

The menu bar at the top of the application contains three sections File, Options and Help.

2.4.1 File menu

Save option

Saves the Site name, date, time, tank name, tank reading and tank units to a CSV (Comma Separated Values) file, which can be read by word processing packages such as Microsoft Excel and Lotus 123. A text editor such as notepad can be used to read this file but will show no formatting information.

Print option

Automatically prints the Site name, date, time, tank name, tank reading and tank units on an A4 sheet in portrait mode using the default printer.

Exit option

Used to terminate the program.

2.4.2 Options menu

Tank Setup option

This allows you to either detect an instrument or change the description and colour of the tank labels.

Site Details option

Allows you to enter the name of the site where the software is being used.

Change Password option

Allows the user to change the password once logged in to the software.

2.4.3 Help menu

www.hycontrol.com website option

Selecting this option starts internet explorer and if a modem is connected automatically navigates to the Hycontrol website.

About option

The about box displays the software version number and any copyright information.

3 Displaying Tanks

3.1 Viewing multiple tanks.

The multiple tank screen shows all of the points of measurement that are being scanned by the instrument. They show limited information for each point, the application type, Level, Distance or Volume and the display reading in metres or feet. If a point on the instrument has been programmed for volume then the units will be whatever units the user has defined in the **Tank Setup**. Also displayed are 4 small indicators, which illuminate Red if a relay is energised or black if the relay is de-energised.

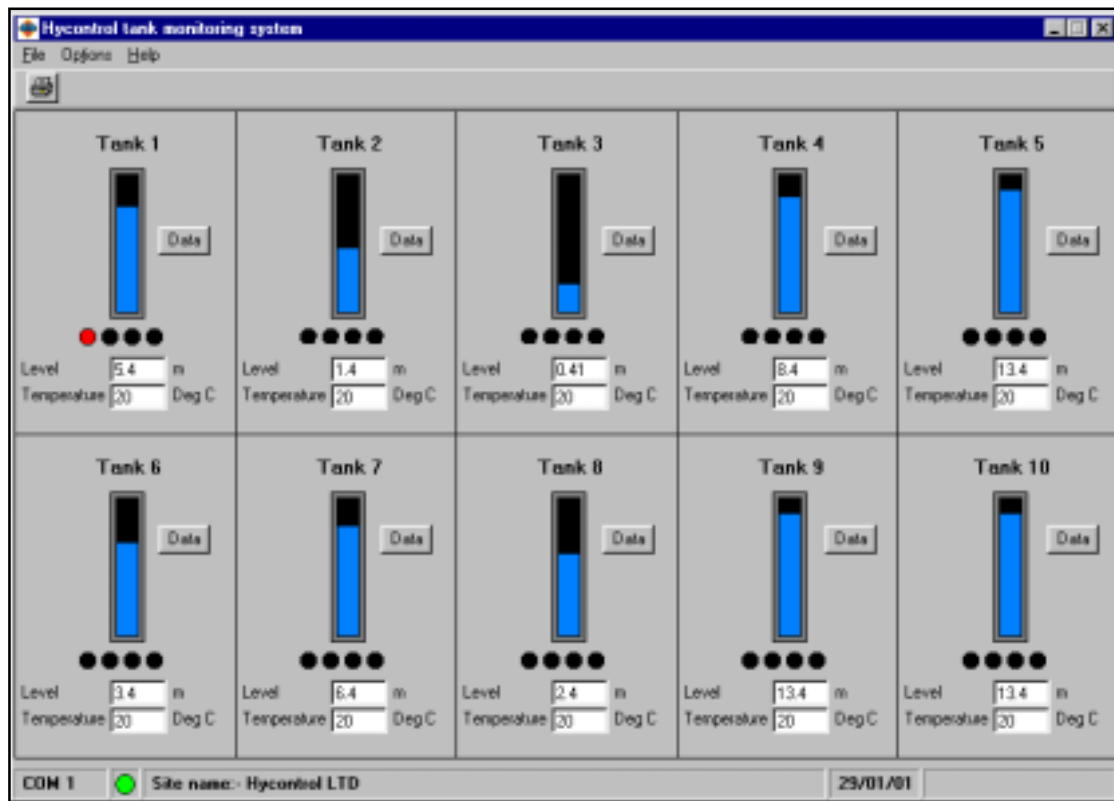


Figure 3.1:- Multiple tank display

At the bottom of the screen in the status bar looking from left to right is the COM port number that the software is using to communicate with. A flashing green indicator, that indicates that the PC is communicating with the instrument, the site name and the date.

3.2 Viewing a single tank.

The single tank display is selected from the multiple tank display by clicking on the **Data** button to the right of any Tank. This display provides a more detailed view of the information seen by the selected point of measurement.

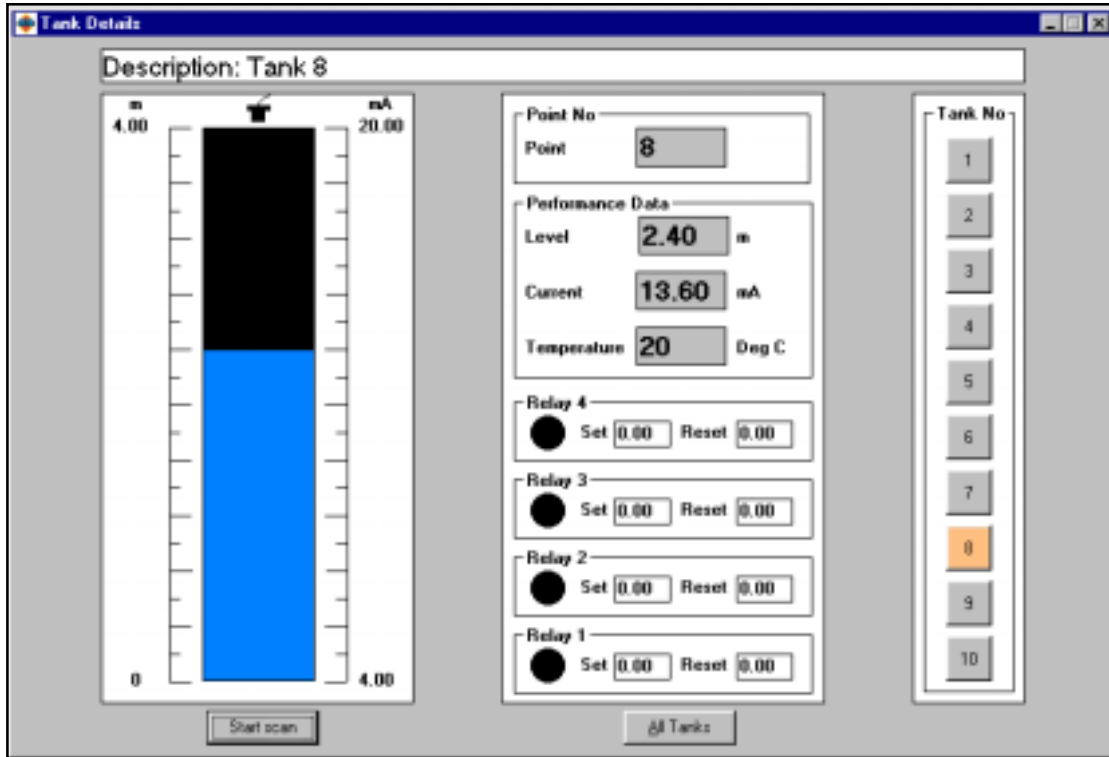


Figure 3.2:- Single large tank display

The **Scan Points** button toggles from **Scan Points** to **Stop scan**. Scan Points mode allows you to display each tank at the same time as being scanned by the instrument. To stop on a particular point click on stop scan and then select the point of measurement on the right hand side that you wish to display.

The **All Tanks** button closes the large tank display and goes back to showing multiple tanks.

The numbered buttons on the right hand side of the screen allow you to select individual points of measurement to view. The display will then stop on that point updating the information only as the instrument updates that particular point during its scan cycle.

Note:- Switching off scan mode and displaying a fixed point of measurement does not affect the instruments operation, the instrument will still continue to scan as normal.

Information for an individual point is located in the centre column. This includes the point number, application type Level, Distance or Volume and the display reading in units of either Metres or Feet. If the point is configured for Volume the units can be selected from a drop down list contained in the **Tank setup** option of the **Options** menu bar. The analogue output current is displayed in mA and the temperature in deg C.

The bottom half of the middle column is used to indicate the position and status of the set points. If a relay is on it will illuminate Red and if off it will be Black. The set and reset points are used to indicate at what level that particular relay will switch on and off.

4 Print and Save

4.1 Printing the tank contents

To print the tank contents, display all tanks and click on **F**ile from the menu bar then **P**rint, this will start printing automatically. The Site name, date, time, tank name, tank reading and tank units for all of the scanned points will be printed onto an A4 sheet in portrait mode using the default printer.

4.2 Saving the tank contents

Before you begin: Make sure you are displaying multiple tanks.

To save a copy of the contents of the tanks at that particular time, click on **F**ile from the menu bar then **S**ave **A**s. Enter the name of the file you wish to save as and click on the **S**ave button. This saves the Site name, date, time, tank name, tank reading and tank units for all scanned points to a CSV (Comma Separated Values) file, which can be read by word processing packages such as Microsoft Excel and Lotus 123. A text editor such as notepad can be used to read this file but will show no formatting information.

5. Changing the password

Before you begin: Make sure you have logged on.

From the menu bar select **Options** then **Change Password**. The following dialog box is displayed.

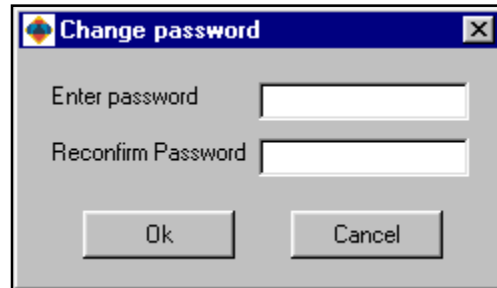


Figure 5.1:- Change password dialog box.

You should select a password that you can easily remember. The password can be a mixture of any alphanumeric characters and numbers. Type in a password and then retype the same password in the reconfirm password textbox.

Type in your required password in to the enter password textbox then reconfirm it by typing it into the reconfirm password textbox.

Then click on **Ok**. This is now your new password.

Note:- The password is case sensitive.

6. Trouble shooting

Problem:- Applications fails to start running giving a corrupt file error message.

Solution:- The main setup file is corrupt or missing, use Add / Remove programs from Windows control panel to uninstall the program and then re-install from CD.

Problem:- Fails to auto detect instrument even after **Retry** button has been pressed.

Solution:- There are several things to check.

1. An Amplicon 2089F interface converter must be connected to the appropriate COM port of the PC.
2. The attached Reflex / Scanflex is in normal operating mode scanning through points of measurement.
3. Check appropriate COM port has been set in **Settings**.
4. Check wiring from interface converter to instrument (see Appendix A).
5. Press **Retry** button to recheck for instrument.

Appendix A

Single display

Figure A.1 shows the wiring diagram for the Amplicon Model 2089F (RS232 / RS485) interface converter. It is required to connect the 9 way RS232 serial port of the PC to the RS485 communications of the Reflex / Scanner system.

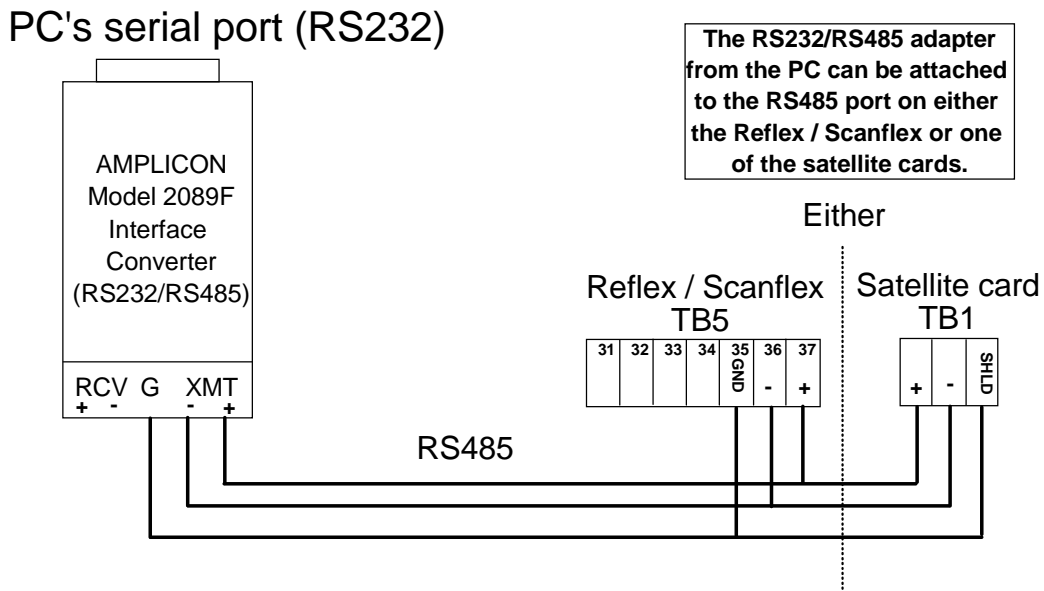


Figure A.1:- Wiring diagram for RS232 / RS485 interface converter.

Multiple displays

Multiple PC's can be attached, each PC requires a separate Amplicon Model 2089F interface converter connected to its serial port.