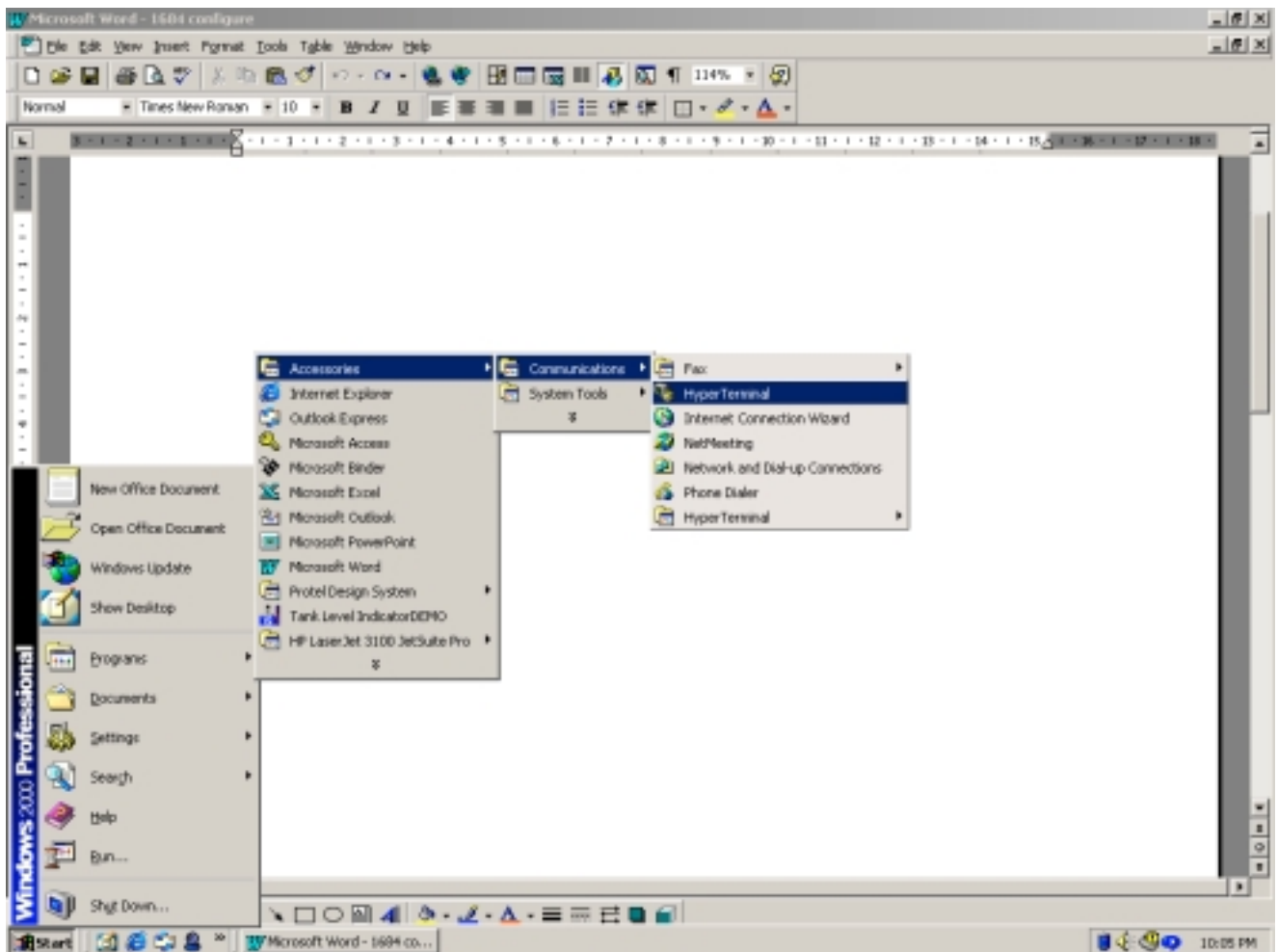


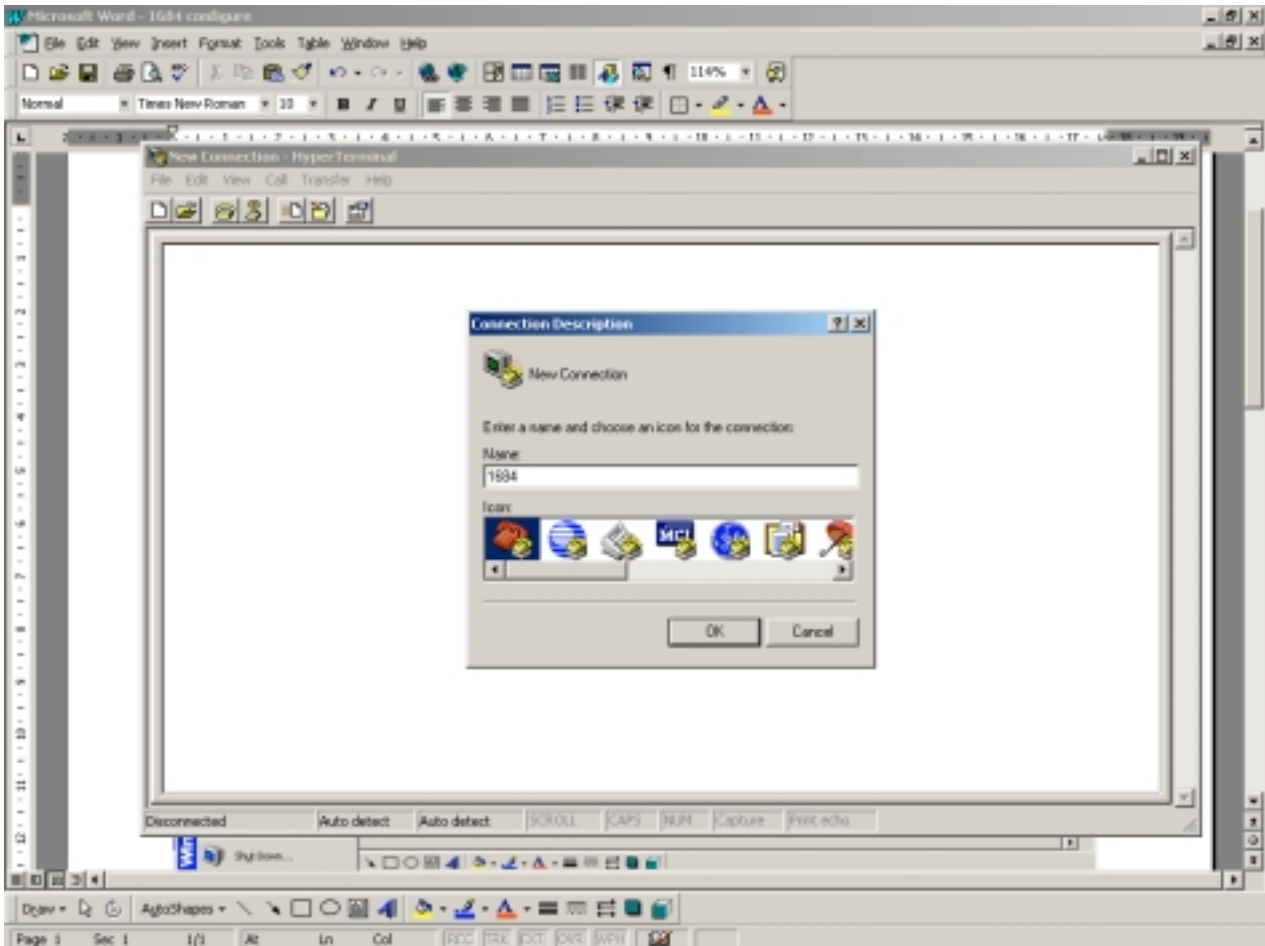
Model 1684 Tank Level Systems for Fire Appliances - Water and Foam Tank Sensors -

Configuring Sensor Points for LED Displays and Switched Outputs

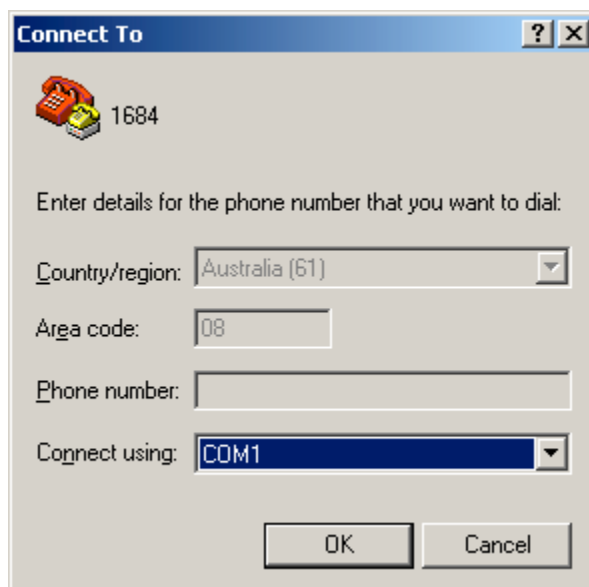
- Connect the Sensor to be configured to a computer serial port using the special 1684 Sensor Cable, Part number 1684SC, with 9-pin D-sub female connector. Note that the Communications wire on a sensor with a flying lead is yellow. [\[See page 3\]](#)
- Connect the Positive (red) and Negative (black) wires to a 9 to 30V DC power supply.
- Use Terminal Emulation software to set the sensor points, such as HyperTerminal, which is included with MS Windows™ operating systems. [\[Skip to settings\]](#)
- To open HyperTerminal go to ‘Start’, ‘Programs’, ‘Accessories’, ‘Communications’, and click on ‘HyperTerminal’, as shown below:



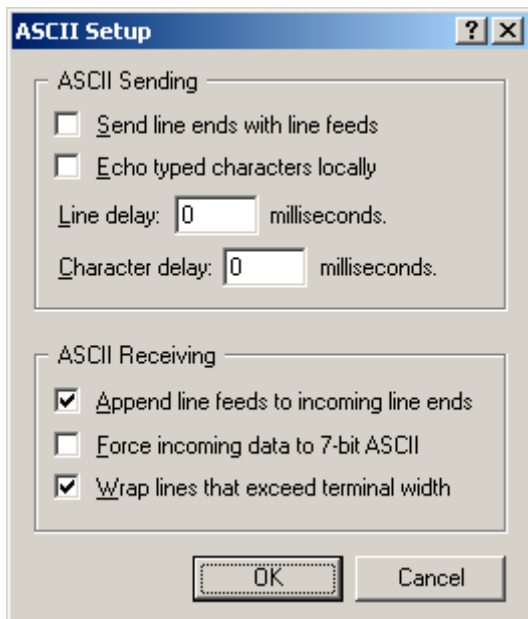
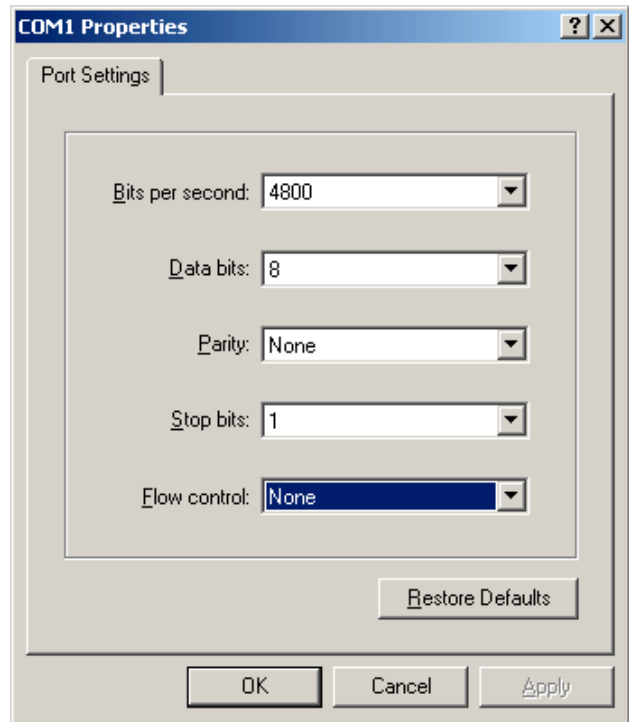
- Set up a new connection, named, for example, '1684', and click OK, as shown below. This setup may be saved for use on another occasion.



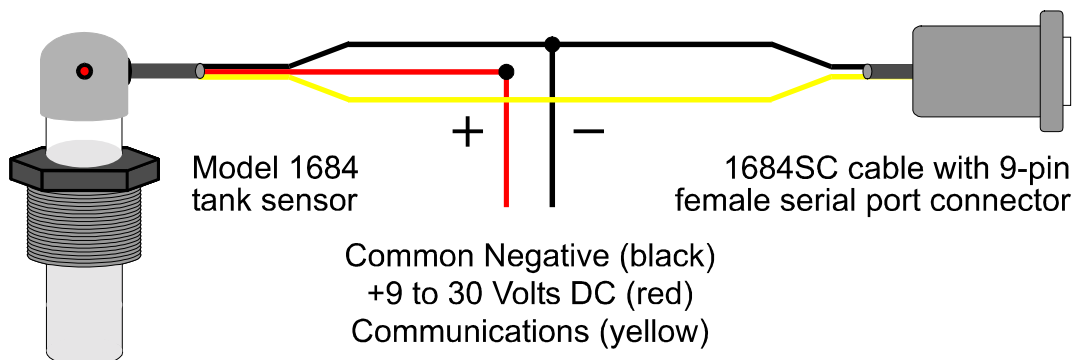
- When the 'Connect To' screen appears, select 'Connect using' and a direct connection to the serial port to which the sensor is connected, for example, COM1.



- Set the COM port Properties to
Bits per second: 4800
Data bits: 8
Parity: None
Stop bits: 1
Flow control: None
and then click OK.



- Configure the Properties, Settings, ASCII Setup as shown with 'Append' and 'Wrap' boxes checked, and then click OK.

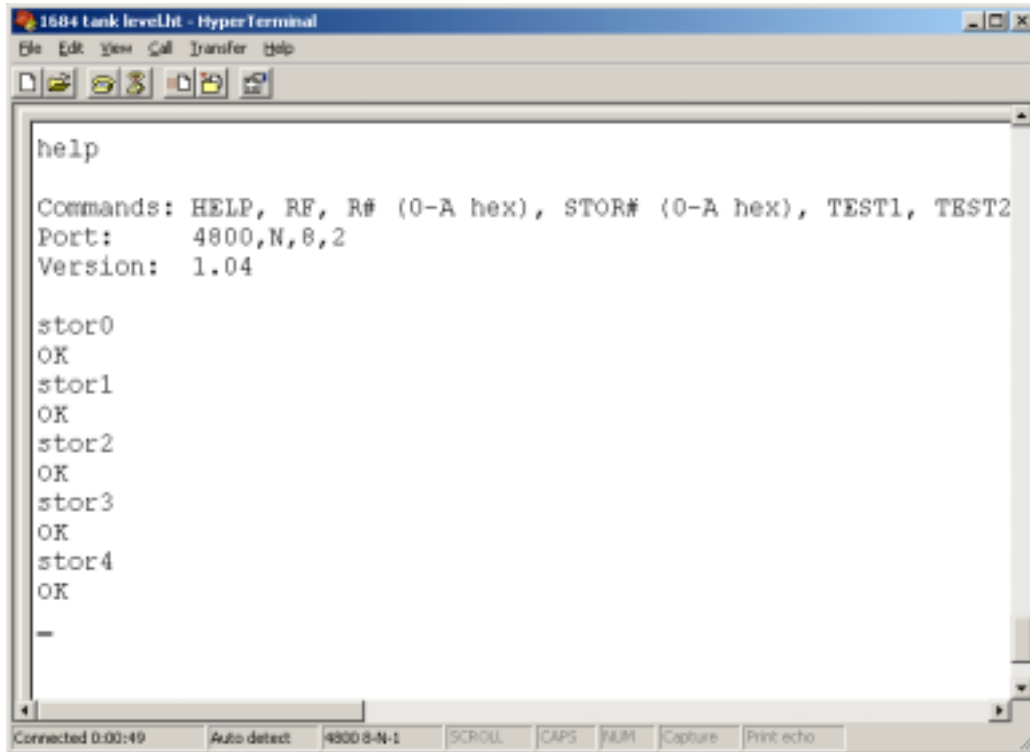


NOTE: When connecting the Tank Sensor to a PC or Laptop to set the levels, disconnect the LED Display Panel/s that are connected to the Sensor in normal service.

[\[Back to beginning\]](#)

[\[Skip to settings\]](#)

- To check communications with the sensor, type **'help'**.
- The sensor returns the message shown in the screen below:



```
1684 tank levelUlt - HyperTerminal
File Edit View Call Transfer Help
help
Commands: HELP, RF, R# (0-A hex), STOR# (0-A hex), TEST1, TEST2
Port: 4800,N,8,2
Version: 1.04

stor0
OK
stor1
OK
stor2
OK
stor3
OK
stor4
OK
-
```

- **'storX'** is used to set levels, **'rX'** is used to read the frequency at these levels in Hexadecimal, **'rf'** reads the frequency at the current level, **'test1'** reads the frequency at 80 times per minute, and **'test2'** at 30 times per minute for test and logging purposes. The commands are not case sensitive, so either upper or lower case may be used. **'X'** denotes the relevant level, ie, 0, 1, 2, 3, or 4, in fire appliance systems.
- To set the lowest level, position the sensor at the required water or foam level and type **'stor0'** to set Level 1, or Empty. The sensor returns **'OK'** as acknowledgement.
- Repeat this step for the next 4 levels. **'stor1'** = Level 2, or 1/4, **'stor2'** = Level 3 or 1/2, **'stor3'** = Level 4 or 3/4, and **'stor4'** = Level 5 or Full.
- Allow for any internal tank overflow outlets when setting the top Full level.
- *NOTE: Any level may be reset at any time without resetting or affecting any other level.*
- *IMPORTANT: Hold the sensor by its cap when resetting levels. Do not hold or touch the sensing area along its length since the setting will be affected by the human hand!*

[End]

[\[Back to beginning\]](#)