

## AQS200 SERIES COMPUTER INTERFACE OPERATION FOR LAPTOPS AND PC'S

1. From the Desktop, select Start, Programs, Accessories, Communications and then select the **HyperTerminal** program. If you do not have the program, see <http://www.freedomdownloadcenter.com> and search for HyperTerminal.

2. This will take you to the **HyperTerminal** Screen. Select **Make New Connection**. Choose a name such as AQS or Air Quality and any Icon you like.

3. This will produce the **Connect to:** Screen. Using the drop-down menu on the **Connect Using:** dialog, select COM1, COM2 or COM3 depending on what COM ports are being used for other purposes. If no RS-232 ports are in use select COM1.

4. This will take you to the **COM Properties Screen:** Select 19,200 bps, 8 Data Bits, no (none) Parity, 1 Stop Bit and no (none) Flow Control.

5. Plug the **optional** ACR PC Interface adapter into the appropriate RS-232 port on your computer and connect the 8-pin modular cable between the adapter and the Remote Panel port of the AQS201. Optional adapters are also available for PC/USB and Palm devices with RS-232 interfaces.



6. The next screen you will see is the **(your icon and name) HyperTerminal** Screen with a blinking cursor.

7. Connect 24 VAC power to the AQS201 (**Red and Blue leads**). You will see the message "**ACR Version 1.k**" where k is the firmware version number. Press the ESC key and you will see the following screen:

```

-----INPUTS-----
FAN=OFF *   AC=OFF *   HEAT=OFF *

WT          RT          TEMP          HUM
020m **    010m **          ***          ***

-----SETTINGS-----
SamT        Htmp          Ltmp          HUM
60          096           22           82

MaxWT       MinWT         MaxRT         MinRT
060         020           045          010

```

SER:5XXYYY, where 5 = 2005, XX=Week of year, YYY=Unit number.

\* These will indicate either an ON or OFF signal state, where ON = 24 VAC (high.)  
Wire Colors: Green = Fan, Yellow = AC, White = Heat

\*\* You will see these numbers if both potentiometers are set at the minimum values for ACR firmware Version 1.2. The values are respectively 060m and 010m for Versions 1.0 and 1.1.

\*\*\* You will see the actual temperature and humidity when using the AQS201TH system or Temperature only for AQS201T or Humidity only for ASQ201H. The letters "N/A" for not available appear when you use the AQS201 (Timer only.)

You can read inputs or change settings by using the h (**lower case only!**) command. You will see a **Cmd=** with a blinking cursor. If you type an h you will see the following commands listed:

```
-----Available Commands-----
0)READ                1)Htmp
2)Ltmp                3)HUM
4)MaxWT              5)MinWT
6)MaxRT              7)MinRT
8)O/C Damper         9)SamT
h)Help               d)Defaults
x)Exit
```

Notes:

- a. READ = Read all the inputs / settings.
- b. Htmp, Ltmp = High, Low temperature settings in °F. (high = 3 digits, Low = 2 digits)
- c. HUM = Humidity setting. (% in 2 digits, 00% to 99%)
- d. MaxWT, MinWT = Max/Min Wait Time in minutes. If you make these two entries the same, then the potentiometers become inoperable. (This is called knob-less operation.) **The Min must be changed first as it must always be less than or equal to the Max value.**
- e. MaxRT, MinRT = Max/Min Run Time in minutes. If you make these two entries the same, then the potentiometers become inoperable. (This is called knob-less operation.) **The Min must be changed first as it must always be less than or equal to the Max value.**
- f. O/C Damper = Alternating Open or Close action. Rapid entry of 8's will stop and start the opening or closing action.
- g. SamT = Sample time interval in seconds. Sampling continues at this interval while valve is open.
- h. d = Defaults = Restore factory defaults (For details, see AQS200 Series data sheet.)
- i. x = Exit interface mode and return to run mode.
- j. You will receive an **ERROR** message if you make an incorrect entry.
- k. **All commands are lower case only.**

Type an x to exit the software control and allow the AQS system to operate. You will see the following message upon rebooting: **ACR Version 1.k** (where k is firmware version number).

The system will automatically reboot after 10 minutes of inactivity.

When you exit HyperTerminal, save your settings so you can easily use the program again. You can add the Icon to your Desktop for rapid access..