

## TECHNICAL NOTE – RL2400S

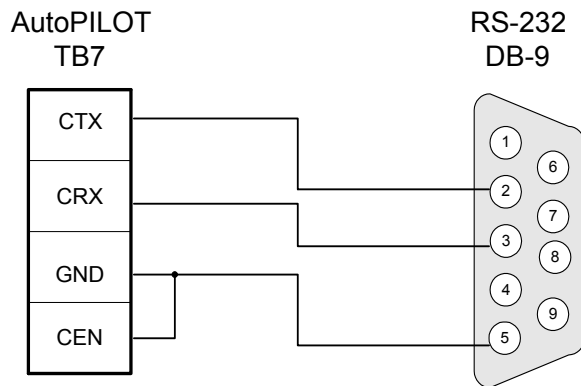
### CONNECTING AN RL-2400S TO A THERMO FLOW AUTOMATION AUTOPILOT FLOW COMPUTER

The AutoPILOT has been evaluated using the RL-2400 radio modems. The evaluation shows that the RL-2400 radios are compatible with the AutoPILOT.

**Objective:** This Application Connection Guide is a guide to setting up a wireless network using a PC and the AutoPILOT flow computer.

#### Configuring the AutoPILOT Flow Computer via the Local Port

Install the AUTO-Configurator software, provided with AutoPILOT, onto your PC. Connect the interface cable from Com1 on your PC to the connector on the bottom right side of the AutoPILOT. If an interface cable was not supplied, you will need to build a cable per the drawing below.



- After connecting the PC to the Local port on the AutoPILOT, run the program “acfg.exe”.
- Choose “2 – Communications Remote/Local Parameters” from the Offline Data Menu.
- Set the address to 1.
- Set the communications port to 1.
- Set the baud rate to 9600. Select “Scan Remote Unit”.

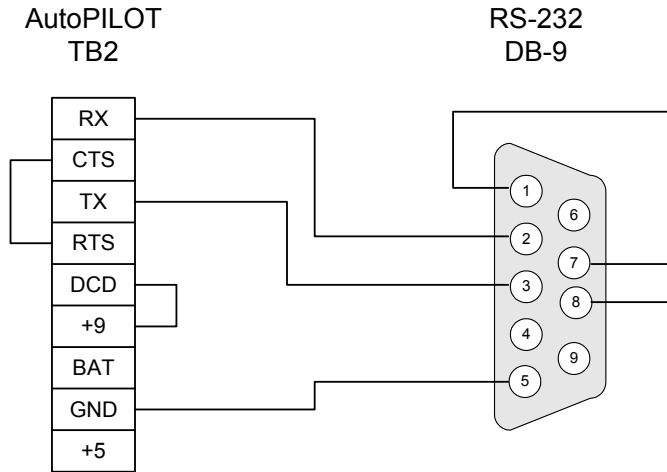
If upon initial communication the AutoPILOT has not been configured, the program displays the unit setup menu. Use this menu to configure the unit per your specific requirements. Once the unit is configured, it is ready for normal operation. You can now remove the interface cable.

#### Connecting the AutoPILOT Flow Computer via the Internal Host Port

Build a cable per the diagram below and connect it from TB7 of the AutoPILOT to the Remote radio modem. NOTE – if connecting directly from the AutoPILOT to the PC (without using the radio modems), install a null modem cable between the cable shown below and the PC com port.

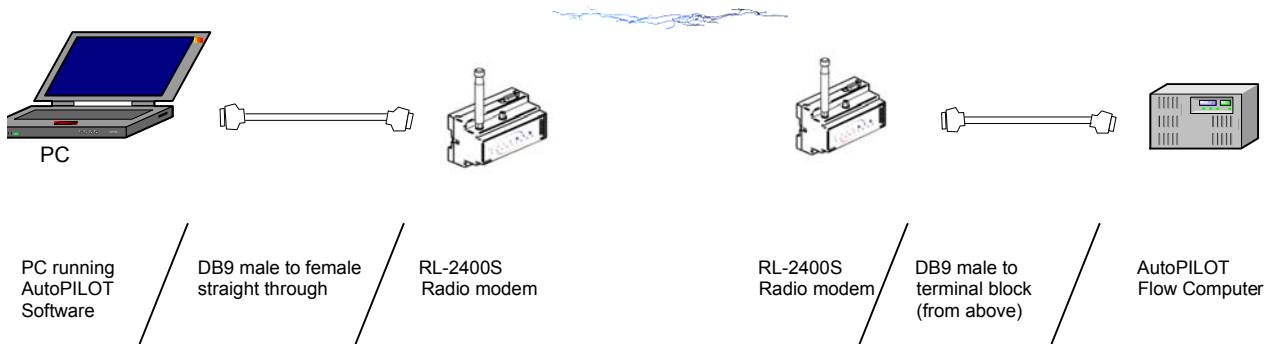
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### Configuring and Connecting the RL-2400 Radio Modems

Radios must be configured in a point-to-point or point-multipoint broadcast network for use with the AutoPILOT flow computer.



Master and remote radios are to be set up as follows:

- Baud rate 9600
- Parity no
- Data bits 8
- Stop bits 1
- Hardware handshaking disabled

### Configuring the AutoPILOT Flow Computer via the Internal Host Port

Once the radio network has been connected, run the program "acfg.exe". The Main Menu will appear and from here you can select specific user preferences and monitor flow computer operation.