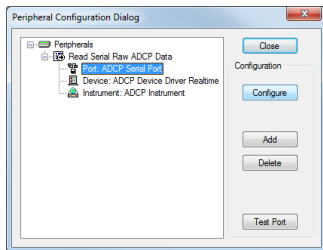


WinRiver II Serial Communications Setup Card

Connecting to the ADCP



Step 1. Connect and power up the ADCP as shown in the appropriate ADCP Operation Manual.

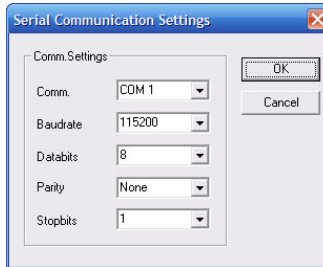
Start *WinRiver II*.

On the **Configure** menu, select **Peripherals**.

Click the + box next to **Read Serial Raw ADCP Data** to expand the list.

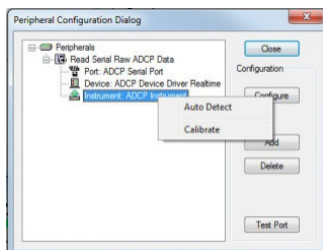
Select **Port: ADCP Serial Port**.

Press the **Configure** button.

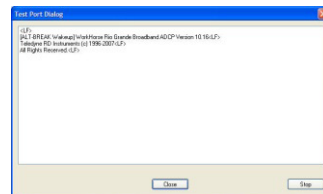


Step 2. Select the Communication Port, Baudrate, Databits, Parity, and Stopbits.

Click **OK** to continue.



Step 3. If you are unsure of the setting, click **Cancel** and right-click on **Instrument: ADCP Instrument** and select **Auto Detect**.

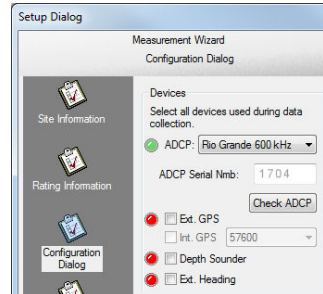


Step 4. Click the **Test Port** button.

The ADCP wakeup message should appear.

Click the **Close** button to exit the Test Port Dialog.

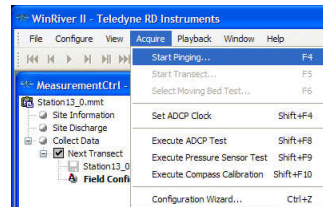
Click the **Close** button once more to exit the Peripherals Configuration Dialog.



Step 5. Start a new measurement in *WinRiver II* by clicking **File, New Measurement** to run the Measurement Wizard.

On the **Configuration Dialog**, ensure the **ADCP** type matches your ADCP and the indicator next to the ADCP is green. Verify the serial number is correct.

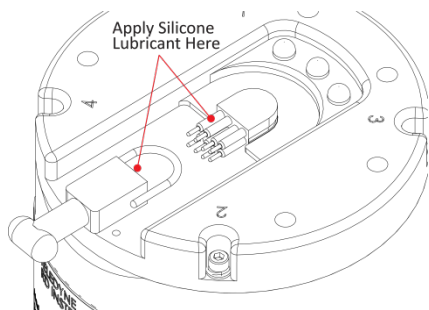
After reviewing the **Summary** page, click the **Finish** button to complete the wizard.



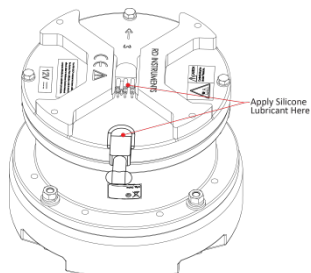
Step 6. On the **Acquire** menu, select **Start Pinging**.

Set the ADCP's clock.

The **Acquire Control** window will show **ADCP PINGING**.

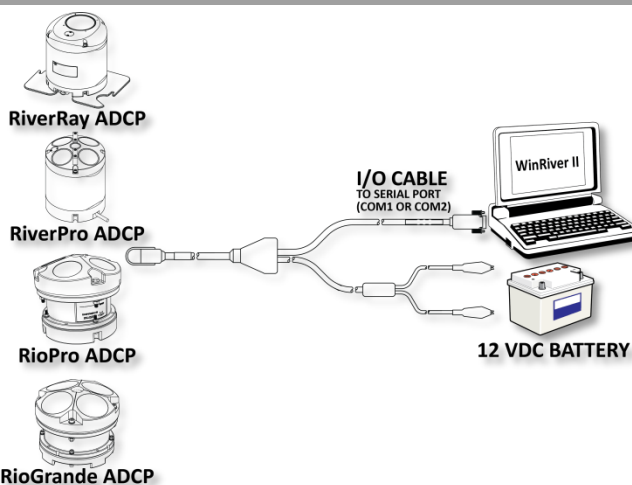


RiverRay/RiverPro/RioPro ADCPs



Rio Grande ADCPs

Use **ONLY** silicone based lubricants.
DO NOT use petroleum based lubricants.
MCD-0055-01




Use light amounts of silicone lubricant (such as 3M™ Silicone Lubricant (Dry Type) ID No: 62-4678-4930-3) on both the male pins and female socket to help seat the cable connector. Wipe off excessive silicone spray from the metal portions of the pins. **Regular lubrication is required:** Apply dry type silicone lubricant prior to each connection.

Adding External Devices

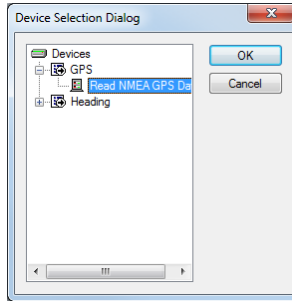
Adding Depth Sounders




Step 1. Select the **Configure** menu, **Peripherals**.
Click the **Add** button.

 Three serial ports are required on your computer to accept ADCP, GPS data, and depth sounder data.

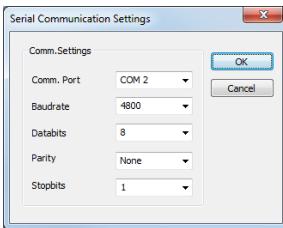
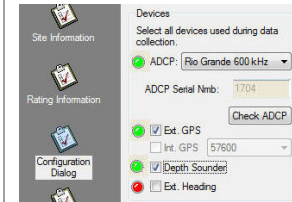
Adding GPS



Step 1. Select the **Configure** menu, **Peripherals**.
Click the **Add** button.

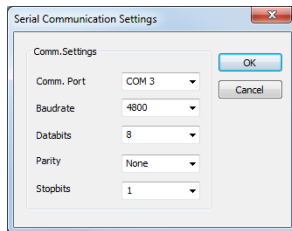
 Two serial ports are required on your computer to accept both ADCP and GPS data.

Step 4. Start a new measurement in *WinRiver II*.
On the **Configuration Dialog**, ensure the **ADCP** type matches your ADCP and the indicator next to the ADCP, GPS, and Depth Sounder are green.



Step 2. Click the + box next to **Sounder** to expand the list. Choose **Read NMEA Sounder**, and then click **OK**.

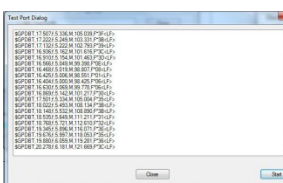
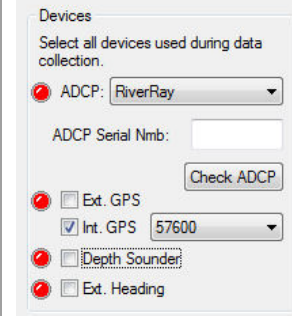
Choose the COM port that the depth sounder is connected to
Enter the Depth Sounder communication Baud Rate, Parity, and Stop Bit settings.
Click **OK**.



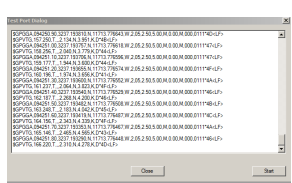
Step 2. Click the + box next to **GPS** to expand the list. Choose **Read NMEA GPS Data**, and then click **OK**.

Choose the COM port that the GPS is connected to.
Enter the GPS communication Baud Rate, Parity, and Stop Bit settings.
Click **OK**.

Step 5. If you are configuring a RiverRay, RiverPro/RioPro system with internal GPS, then check the **Int. GPS** baud rate. Available baud rates are 4800, 9600, 19200, 38400, 57600, 115200 and Auto (RiverPro/RioPro only).



Step 3. Click **Test Port** and observe the messages coming from the port assigned for the depth sounder. If the communication parameters are set properly the "\$ DBT" strings will display.
Click the **Close** button.
Click **OK**.



Step 3. Click **Test Port** and observe the messages.
Click the **Close** button.
Click **OK**.

