

## Components

- "Host" Wireless Module with USB connector
- "Remote" Wireless Module with 9-pin connector
- Battery Cable and AC Power Adapter (either can be used to power the Remote Module)

## Instructions

1. If using the XR440 Data Logger:  
The XR440's baud rate must be changed to 9600 as follows: Connect the XR440 to your computer, launch Pocket Logger Software, select Settings, set baud to 9600, click OK, and then select Send | Set XR440 Baud Rate.

If using an XR5 Data Logger proceed to step 2.

2. Insert the Host Module into a USB Port on your computer.
3. Connect Remote Module to Pace IC209 Interface Cable (other end of Interface Cable connects to Pace Data Logger).
4. Power the Remote Module via the AC Adapter or the Battery Cable connected to a 9V battery or battery pack (a battery pack is not included with the WTP-100, see next page for additional details).
5. Yellow light on Remote Module and the light on the Host Module will both glow steady once the Host and Remote modules have automatically "linked" together.
6. If using a Pace XR440 Data Logger:  
On your computer, click Start | Control Panel | System | Hardware tab (Win XP only) | Device Manager and click the + sign besides Ports. The assigned COM port # will be listed as USB Serial Port (COMxx) where xx is the Port number. In Pocket Logger Software, click Settings and then click this Port number.

If using a Pace XR5 Data Logger:

LogXR Software will recognize the serial port that the operating system has assigned to the Host Module. Launch LogXR **after** the Host Module is inserted into your computer (LogXR scans for ports only at start-up).

7. Communications with the connected Pace Data Logger will now function as if the Data Logger was connected to your computer via a hardwired connection using the Pace IC209 Interface Cable.

Questions or comments: email [support@pace-sci.com](mailto:support@pace-sci.com) or call 704-799-0688

**Powering the Remote Module with the included battery cable.**

The Battery Cable can be used to power the Remote Module in place of the AC Power Adapter. The battery cable connects to a 9V battery or a compatible battery pack. Three sizes of battery holders are available from Pace (AA, C or D size cells). Weatherproof cases available from Pace house the data logger (XR440 or XR5), WTP-100 Remote Module, and battery pack (see table below).

WTP-100 estimated battery life, Pace Enclosure with BP (battery pack) option and Pace XR440 or XR5-SE Data Logger				
Enclosure # for XR440	Enclosure # for XR5	Battery Size	One data transfer per day	Constant Real Time Mode (24/7)
<a href="#">EC24-BLK-BP</a>	<a href="#">EC24-BLK-BP</a>	Four AA cells	6 days	2 days
<a href="#">EC24-YEL-BP</a>	<a href="#">EC24-YEL-BP</a>	Four AA cells	6 days	2 days
<a href="#">EC44-BP</a>	<a href="#">EC45-BP</a>	Four C cells	15 days	5 days
<a href="#">EC506-BP</a>	<a href="#">EC55-BP</a>	Four D cells	30 days	10 days

Notes:

- 1) "One data transfer per day" assumes Host module is unplugged from USB port when not communicating with logger, and Remote module remains powered up via the battery pack.
- 2) A 9V battery can also power the WTP-100. Estimated battery life in constant real time mode is 9 hours with a typical 9V alkaline battery, and 20 hours with an Ultralife 9V Lithium battery. Intermittent use will give longer life.

\*\*\*\*\* For Reference Only \*\*\*\*\*

Remote Module DIP Switch settings:

Position Remote Module with 9 pin connector on right.  
 Switch 1 is at bottom, switch 4 is at top.  
 ON = Switch to Left, OFF = Switch to Right

Switch 4    ON  
 Switch 3    OFF  
 Switch 2    OFF  
 Switch 1    OFF

Alternate Configuration:

**One Host Module communicates with multiple Remote Modules**

1) The DIP switch setting on the Remote Module must be set as shown below (Switch 2 set to ON).

Remote Module DIP Switch settings:

Position Remote Module with 9 pin connector on right.

Switch 1 is at bottom, switch 4 is at top.

ON = Switch to Left, OFF = Switch to Right.

Switch 4	ON	
Switch 3	OFF	
Switch 2	ON	ON = Automatic discovery
Switch 1	OFF	

2) When connecting with multiple Remote Modules (one at a time), the Host Module (at the computer) must be disconnected (powered down) from the computer, and then reconnected when the next Remote Module is in range. The Host Module's LED will glow steady ON when it has established a link with the Remote Module.

Note:

The Host Module's COM port assignment will be the same after a power down/up cycle, even if it is installed into a different USB Port.

----- FOR ADVANCED USERS -----

### Using your computer's built-in Bluetooth radio or 3<sup>rd</sup> party Bluetooth Serial Adapter to communicate with the WTP-100 Remote Module and XR5-SE Data Logger.

Note: The configuration instructions described in steps 2 and 3 are based on a MacBook Pro with built-in Bluetooth radio. The configuration procedure using other computers and operating systems will vary, but steps 2 and 3 below can be used as a general guide.

The information on this page is provided as a courtesy to our customers. ***Other than the information on this page, Pace Scientific is unable to provide support for built-in Bluetooth radios or 3<sup>rd</sup> party Bluetooth Adapters.***

A computer's Bluetooth Radio (if present), or external Bluetooth Adapter can be configured to communicate with the Pace WTP-100 Remote Module. To do this, the Bluetooth software stack on your computer must be configured to communicate with the Pace Remote Module (steps 2 and 3).

1) The DIP switch setting on the Remote Module must be set as shown below (Switch 2 set to ON).

Remote Module DIP Switch settings (to pair with a Bluetooth Radio):

Position Remote Module with 9 pin connector on right.

Switch 1 is at bottom, switch 4 is at top.

ON = Switch to Left, OFF = Switch to Right.

Switch 4	ON	ON = Sets 9600 baud rate
Switch 3	OFF	Set as Slave (computer's Bluetooth is the Master)
Switch 2	ON	ON = Automatic discovery
Switch 1	OFF	Toggle ON 2x at power-up restores factory settings.

2) The Remote Module shows up under the Bluetooth Devices directory as Serial Port Profile (SPP) Service "FireFly-xxxx", where "FireFly" is the Pace Remote Module and "xxxx" is the last four nibbles of the Remote Module's MAC address. You need to pair your computer's Bluetooth radio or Adapter with the Pace Remote Module by selecting the "FireFly..." device name and following the setup prompts. The Remote Module (the Slave) stores up to 8 pairings from computer hosts (the Master) in a first in, first out fashion. Your computer OS will probably require authentication during the pairing operation. The default Passkey for the WTP-100 Remote Module is "1234".

3) To connect to the Remote Module, browse for services, and you should see: "SPP" profile with a virtual COM port. Open this virtual COM port to create a Bluetooth connection. Then launch LogXR, and select this same SPP profile listed in the Port | Select screen.

Note:

LogXR scans for available ports only during its initial start-up. If your Bluetooth connection was established while LogXR was running, quit LogXR and restart it so that the new virtual COM port will be recognized.