

Accessing Diagnostics

Applies to: Omega JR, PIcon II, RS485 Smart D-Box, Hybrid Multi-Pump, Mechanical Relay/EMR3, & RLM4

Progressive International Electronics, Inc.

Revision Date: July 2021

Table of Contents

Connection to Diagnostics USB cables	2
Download and Install ExtraPuTTY	2
Download FTDI drivers	2
Device Manager	2
ExtraPuTTY (or PuTTY)	3
Diagnostics	5

Connection to Diagnostics

USB cables

- Connect from the PC to the DIAG port of the device using a USB cable
 - USB A to B cable is required for Omega JR, PIcon II, and RLM4
 - Micro USB cable is required for RS485 Smart D-Box, Hybrid Multi-Pump, and Mechanical Relay/EMR3
- Power on the device

Download and Install **ExtraPuTTY**

Download **FTDI drivers**

• Double-click on the .zip file to extract and install the drivers

Device Manager

- Open Device Manager on your PC (right click on Start Menu of Windows 10)
- Expand the Ports section



• There should be a *USB Serial Port (COMxx)* where xx is the port number that was given by Windows. This com port will be used in ExtraPuTTY.

ExtraPuTTY (or PuTTY)

• Open ExtraPuTTY from the Programs list of the Start Menu

- Session	^	Basic options for your PuTTY session	
Logging Legging Legging Legging Legging Legging Legging Legging Statuses Settings Statuses Statuses Statuses Statuses Statuses Statuses Legging Legging Statuses Statuses	D	Specify the destination you want to connect to Serial line Speed COM5 57600 Connection type: ORaw OTelnet ORlogin OSSH A Second Series Second	erial ad Ive
Teinet Rlogin	1	Close window on exit: Always Never Only on clear Only on	n exit
About	*	F Open Ca	ncel

- Select Serial for the Connection Type on this page. (See A in Image 1.)
- Select Serial from the bottom of the Category list on the left. (See B in Image 1.)

Category: Logging Keyboard Bel Features Features ExtraPuTTY	Â	Options control Select a serial line Serial line to connect to Configure the serial line	ling local serial lines
Settings StatusBar StatusBar Settings StatusBar Window Appearance Behaviour		Speed (baud) Data bits Stop bits Parity	B
Translation Selection Colours Hyperlinks		Flow control	None (DTR/RTS disable) ∨

- Change the Serial line to connect to to the COM port that was determined in Device Manager. (See A in Image 2.)
- Set all other parameters to the ones shown above. (See B in Image 2.)
- Select Session from the top of the Category listing on the left. (See C in Image 1.)
 - Confirm that the COM port is correct.
- Type Omega JR in the Saved Sessions textbox in the center of the screen. (See D in Image 1.)
- Press Save to save the session for future use. (See E in Image 1.)
- Press Open to begin the Diagnostic session. (See F in Image 1.)
- Logging information in PuTTY is sometimes necessary. Turn on logging using the following steps:
 - Select Logging from the Category listing on the left. (See A in Image 3.)
 - Select "All session output" (See B in Image 3.)
 - Browse to where the log file will be written. (See C in Image 3.)

Caralian .		Original and allow a second se			
 Session Logging Terminal Keyboard Bell Features Extra Pu TTY Settings Status Bar Files Transfer Window Appearance Behaviour Translation Selection Colours Hyperlinks Connection Data Proxy Telnet Rlogin SSH Serial Cvaterm 	* *	Options controlling session logging: ○ None ○ Printable ou ④ All session output ○ SSH packets and raw data □ Add session events ○ SSH packets and raw data □ Add session events TimeStamp Type: TimeStamp Format : [½d/?um/?ky - ?kH:?kM:?kS:_MIL] Log file name: C:\Users\Owner\Documents\putty.log (Log file name can contain &Y, &M, &D for date, &T for trame) What to do if the log file already exists: ○ Always overwrite it ○ Always append to the end of it ④ Ask the user every time ○ Flush log file frequently Options specific to SSH packet logging ○ Omit known password fields ○ Omit session data	tput ts None	Browse d &H for ho	~ .st
About		Open		Cancel	

Diagnostics

• Press Esc to get the Diagnostics menu for the connected device.



• Press ? to display Help for Diagnostic navigation

