

Bootloader Instructions

- 1. Looking at the Modbus RTU DIP switches (next to the power terminals), turn on switches 7 and 8 (these are normally used to set parity).
- 2. Make a direct connection between the PC and the KTA-282 using an Ethernet cable.
- 3. Set your PC's network card to:

IP Address: 192.168.1.1

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

See appendix for step by step instructions for windows

- Apply 8 to 28V DC to the power terminals of the KTA-282. You should see the transmit and receive LED's next to the RS485 and Weather Station ports flash on and off. This confirms the KTA-282 is in bootloader mode.
- 5. Point your browser to 192.168.1.100. You should see this page:

Firefox 🔻							
http://192.168.1.10	0/	+					
€ 3 192.168.1.10	0	⊂ ⊂	8 - Google	P	+	⋒	-
Ocean C KTA-282 Firm	ontrols ware Upda	š ite					
If you got here by mistake, your parity switches are set incorrectly							
			Browse	Overwrite Firmw	are		

- 6. Press browse and use the dialogue box to find the firmware update file provided to you by Ocean Controls. This will have extension **.enc**
- 7. Press Overwrite Firmware to commit the file to the KTA-282. You should now see your browser loading. Be patient in this process, the entire upload typically takes around 5 minutes. The RX LED on the Ethernet port should show significant activity, and the Ethernet TX LED should blink roughly every 10 seconds. This confirms the file upload is in progress.
- 8. Upon completion, your browser will show:



9. Power off the KTA-282, turn off switches 7 and 8, and reapply power. The KTA-282 should now be operating with updated firmware.



Appendix

Manually setting your PC's network configuration (for windows)

- 1. Open the control panel and go to Network Connections.
- 2. Right click on your LAN adapter and go to Properties.
- 3. Click on Internet Protocol (TCP/IP) and go to Properties.

🕂 Local Area Connection Properties 🛛 🔹 💽						
General Advanced						
Connect using:						
Realtek RTL8168C(P)/8111C(P) PCI- Configure						
This connection uses the following items:						
 Client for Microsoft Networks File and Printer Sharing for Microsoft Networks QoS Packet Scheduler Internet Protocol (TCP/IP) 						
I <u>n</u> stall Uninstall Properties						
Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.						
Sho <u>w</u> icon in notification area when connected Notify <u>m</u> e when this connection has limited or no connectivity						
OK Cancel						

4. Click on Use the following IP Address and type in the recommended values:

Internet Protocol (TCP/IP) Properties							
General							
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.							
O Dtain an IP address automatically							
O Use the following IP address:							
IP address:	192.168.1.1						
S <u>u</u> bnet mask:	255 . 255 . 255 . 0						
<u>D</u> efault gateway:	192.168.1.1						
O <u>D</u> tain DNS server address automatically							
O Use the following DNS server addresses:							
Preferred DNS server:							
Alternate DNS server:	· · ·						
Ad <u>v</u> anced							
OK Cancel							