

Basic WAAS Setup: *Novatel Smart and Smart V1 Antenna's*

- Connect the antenna to one of the Com ports on the X20
- Start up the X20 Setup Program
- Select Manual Connect
- Select the Com Port the receiver is connected to
- Check the box “Search all Baud Rates”
- Select the receiver as Novatel
- Select Search
- Once Status bar is Green, select Next

Basic WAAS Setup: *Novatel Smart and Smart V1 Antenna's*

Status Bar:

- Green: Found

Search Options:

- COM Port
- Baud Rate
- Receiver Model

GPS Setup v1.4.6.10 28 Aug 2007

GPS | Diagnostics | Differential Source | Application

Current Receiver:
Novatel

Status:
Connected to 1 at 9600 baud and found:
Novatel

Search Options:

Search all Com Ports
Port: Com 1

Search all Baud Rates
Baud Rate: 9600

Search all receivers
Receiver: Novatel

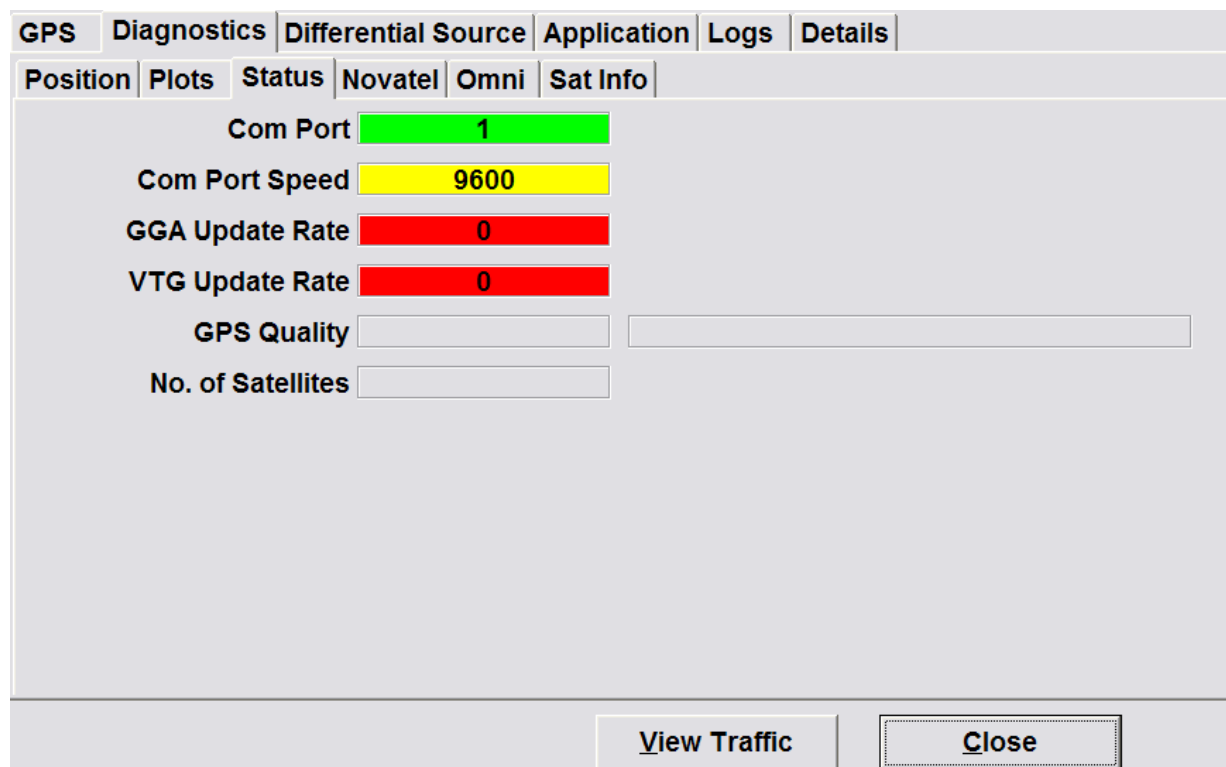
Auto Connect
Stop Search
Disconnect
Manual Connect
Next
View Traffic
Close

Basic WAAS Setup: *Novatel Smart and Smart V1 Antenna's*

Status Screen

All status bars must be green

To configure to WAAS
Select the **Differential Source**
tab at the top of the screen

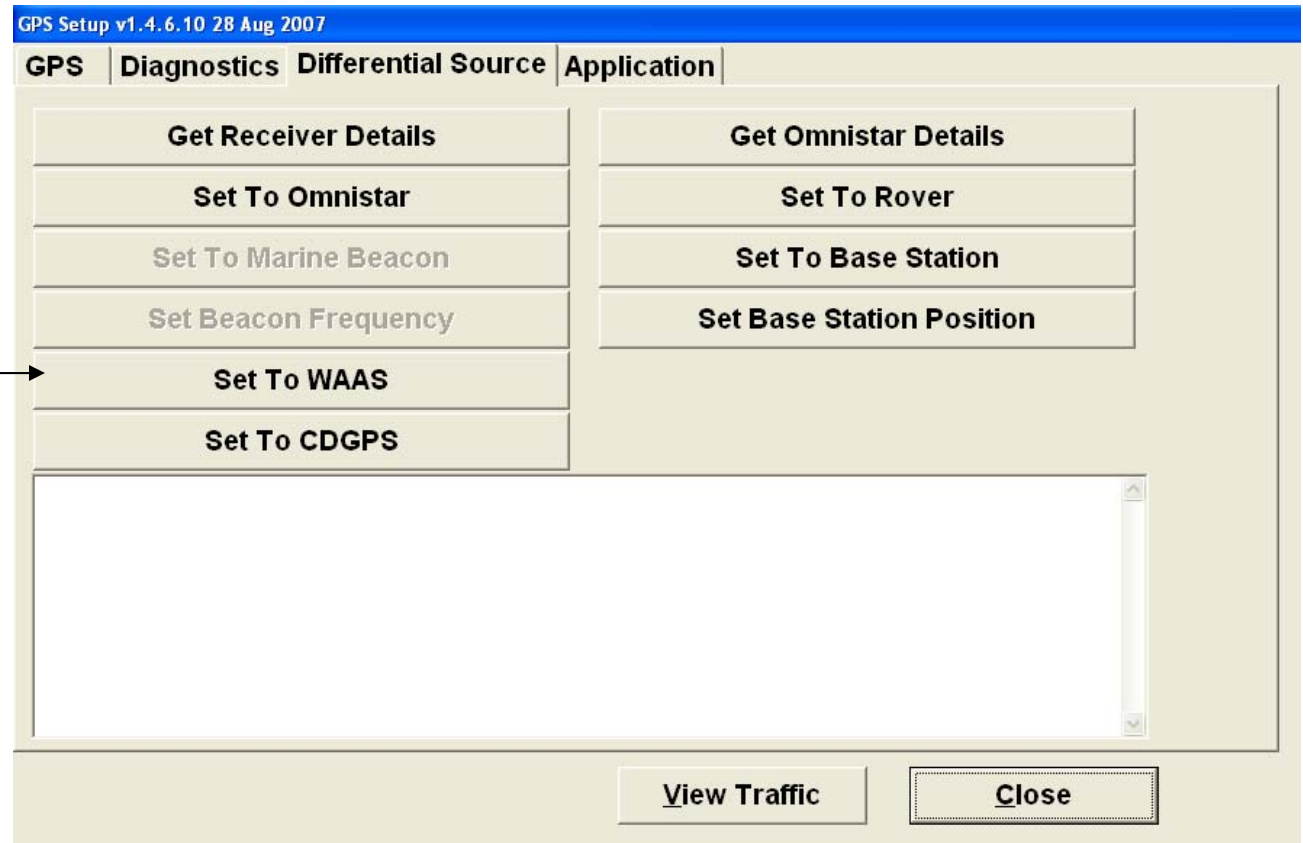


The screenshot shows a software interface with the following elements:

- Top navigation tabs: GPS, Diagnostics, **Differential Source**, Application, Logs, Details
- Sub-navigation tabs: Position, Plots, Status, **Novatel**, Omni, Sat Info
- Configuration items:
 - Com Port: 1 (Green bar)
 - Com Port Speed: 9600 (Yellow bar)
 - GGA Update Rate: 0 (Red bar)
 - VTG Update Rate: 0 (Red bar)
 - GPS Quality: [Empty input field]
 - No. of Satellites: [Empty input field]
- Bottom buttons: View Traffic, Close

Basic WAAS Setup: *Novatel Smart and Smart V1 Antenna's*

Select: Set To WAAS



GPS Setup v1.4.6.10 28 Aug 2007

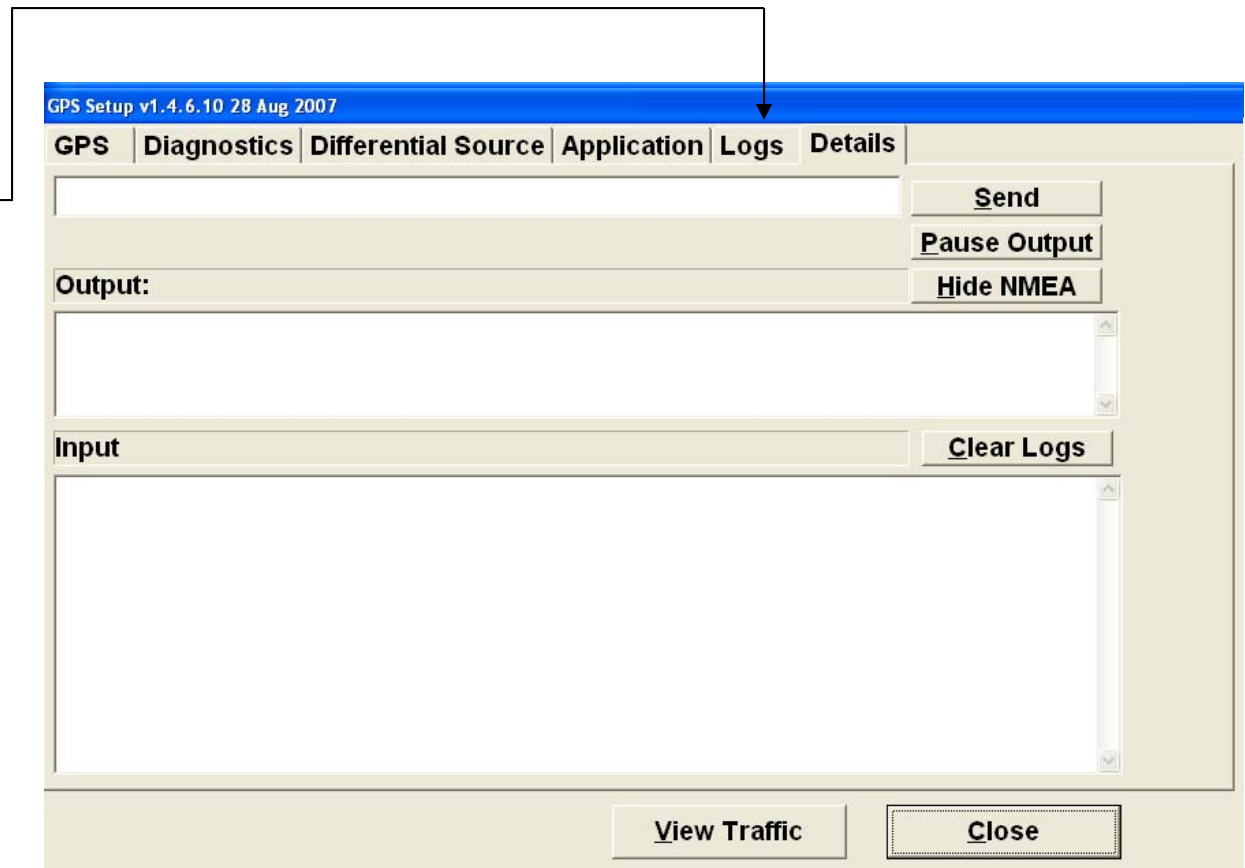
GPS | Diagnostics | Differential Source | Application

Get Receiver Details	Get Omnistar Details
Set To Omnistar	Set To Rover
Set To Marine Beacon	Set To Base Station
Set Beacon Frequency	Set Base Station Position
Set To WAAS	
Set To CDGPS	

View Traffic Close

Basic WAAS Setup: *Novatel Smart and Smart V1 Antenna's*

Rapidly Tap beside the application Tab at the top to bring in the details page. (at least 5 times)

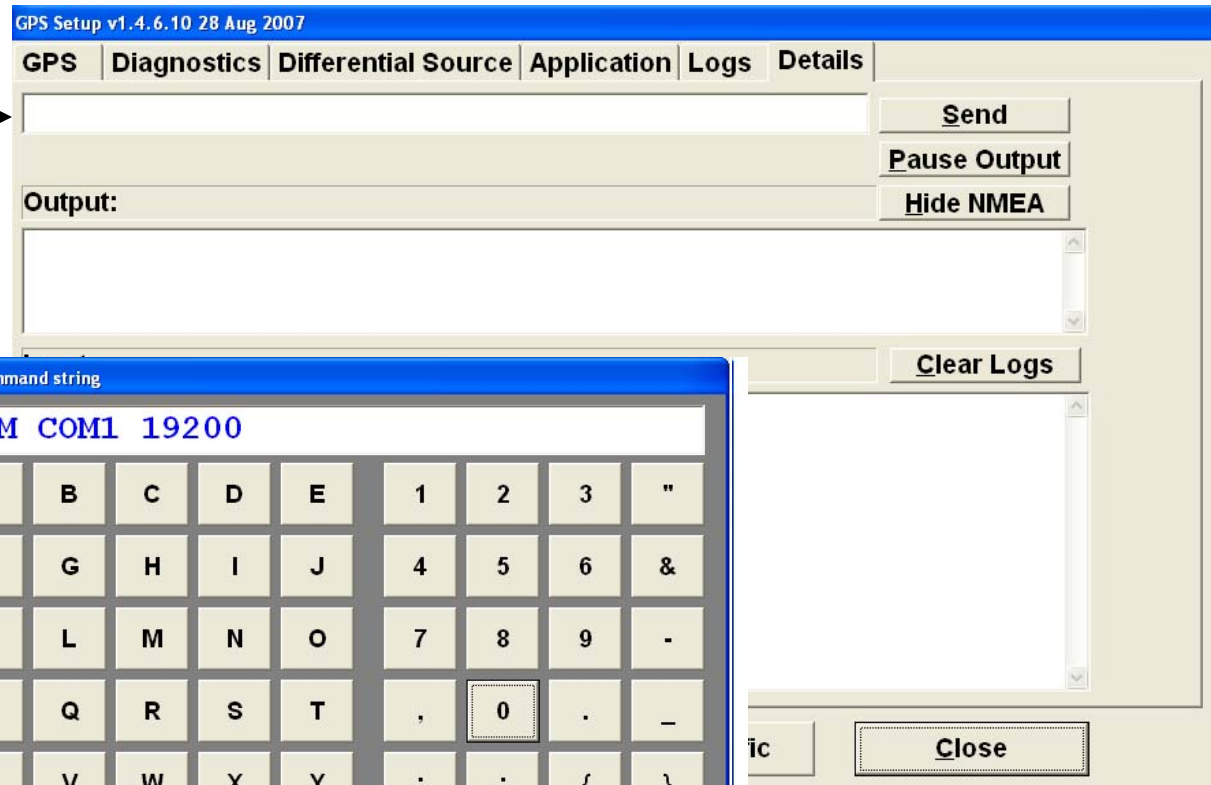


Basic WAAS Setup: *Novatel Smart and Smart V1 Antenna's*

To bring up the key pad double click on the input line.

This will pop up on the screen using the key pad enter the command *com*
com1 19200

Click OK



GPS Setup v1.4.6.10 28 Aug 2007

GPS | Diagnostics | Differential Source | Application | Logs | Details

Send

Pause Output

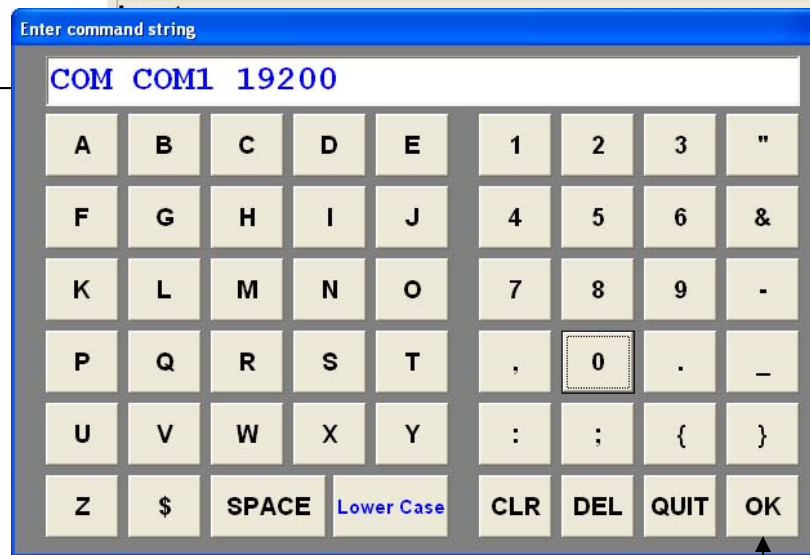
Hide NMEA

Output:

Clear Logs

ic

Close



Enter command string

COM COM1 19200

A	B	C	D	E	1	2	3	"
F	G	H	I	J	4	5	6	&
K	L	M	N	O	7	8	9	-
P	Q	R	S	T	,	0	.	_
U	V	W	X	Y	:	;	{	}
Z	\$	SPACE	Lower Case	CLR	DEL	QUIT	OK	

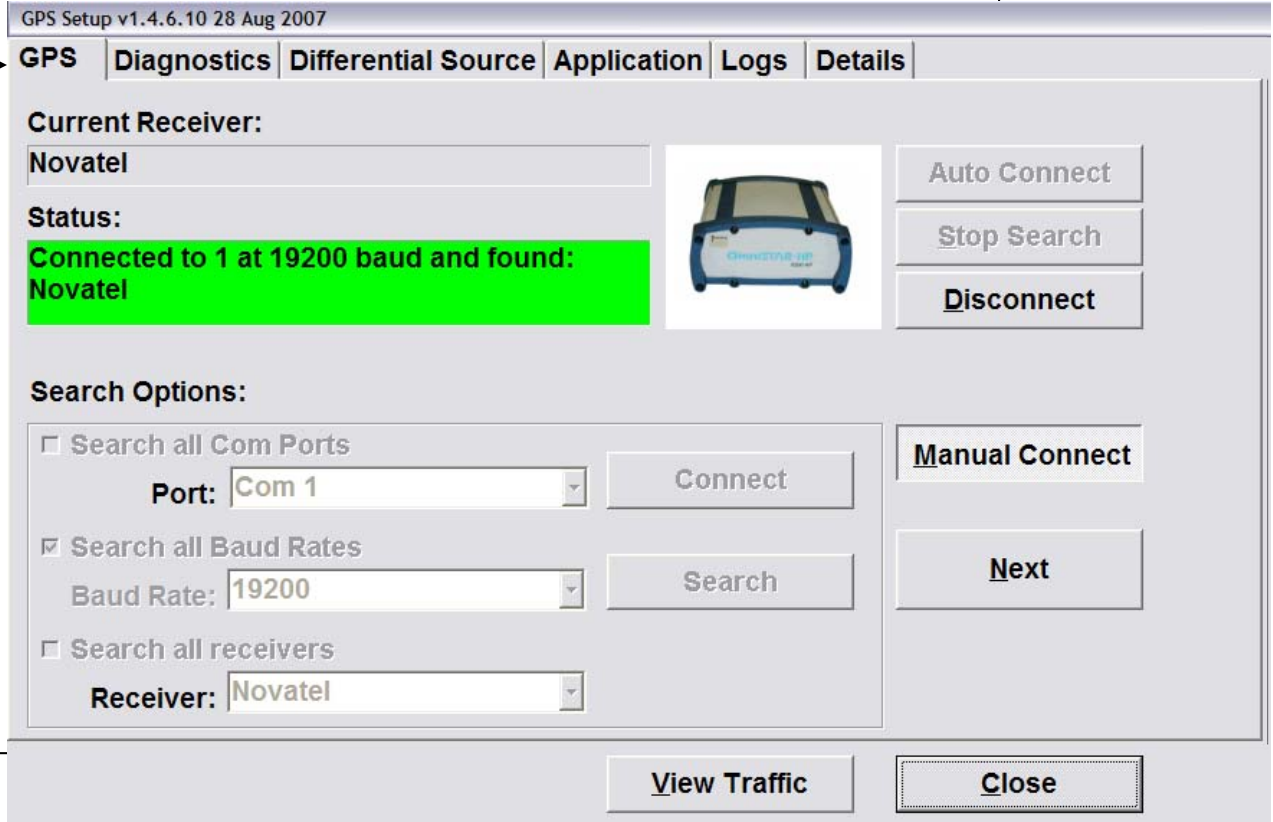
Basic WAAS Setup: *Novatel Smart and Smart V1 Antenna's*

Click send

Then select the GPS tab at the top of the page.

Select search

Then click on Disconnect since you changed the baud rate and the receiver needs to be reconnected at 19200 baud rate



GPS Setup v1.4.6.10 28 Aug 2007

GPS | Diagnostics | Differential Source | Application | Logs | Details

Current Receiver:
Novatel

Status:
Connected to 1 at 19200 baud and found:
Novatel

Search Options:

Search all Com Ports
Port: Com 1

Search all Baud Rates
Baud Rate: 19200

Search all receivers
Receiver: Novatel

Auto Connect
Stop Search
Disconnect

Manual Connect
Next

View Traffic
Close

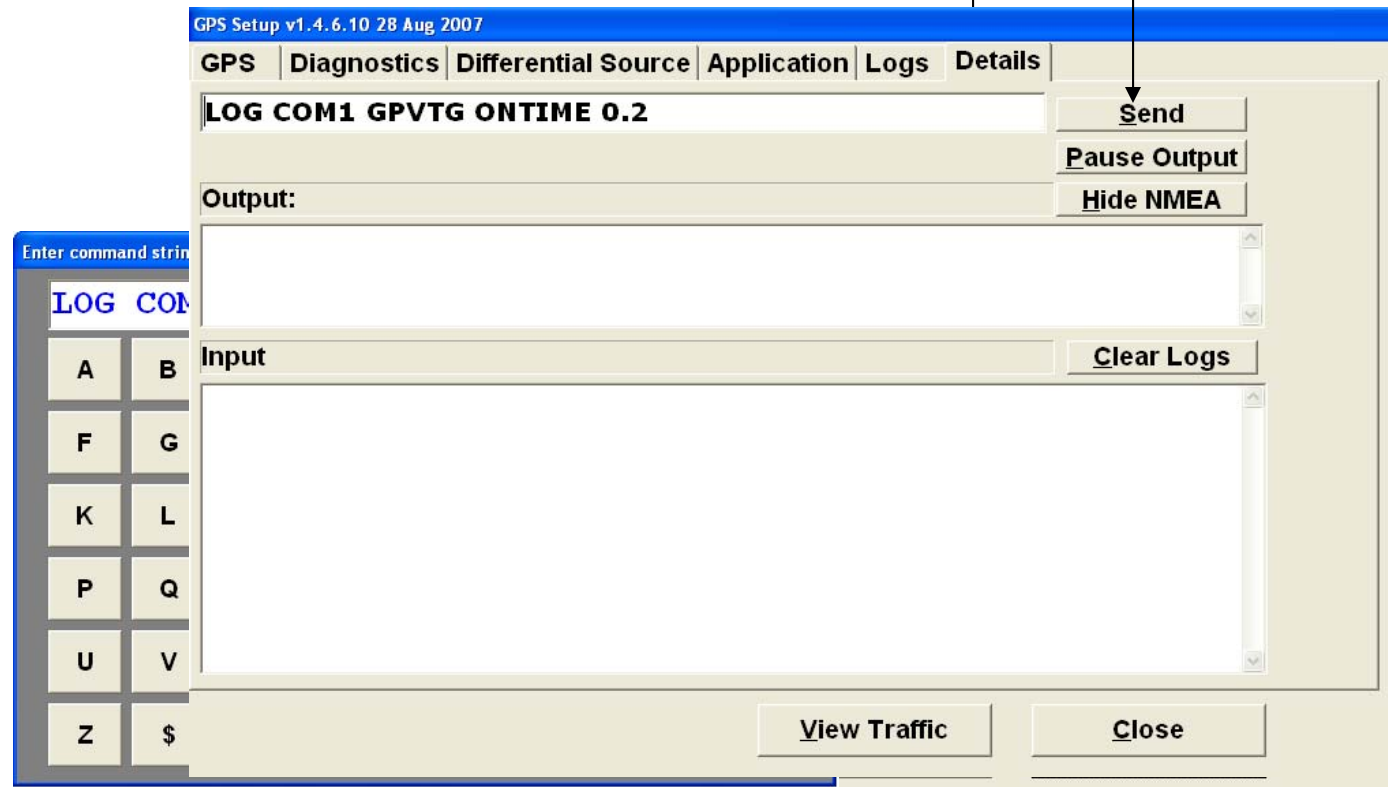
Basic WAAS Setup: *Novatel Smart and Smart V1 Antenna's*

Select the details tab at the top of the screen

Click send

Bring up the key pad and type in the command *log com1 gpvtg ontime 0.2*

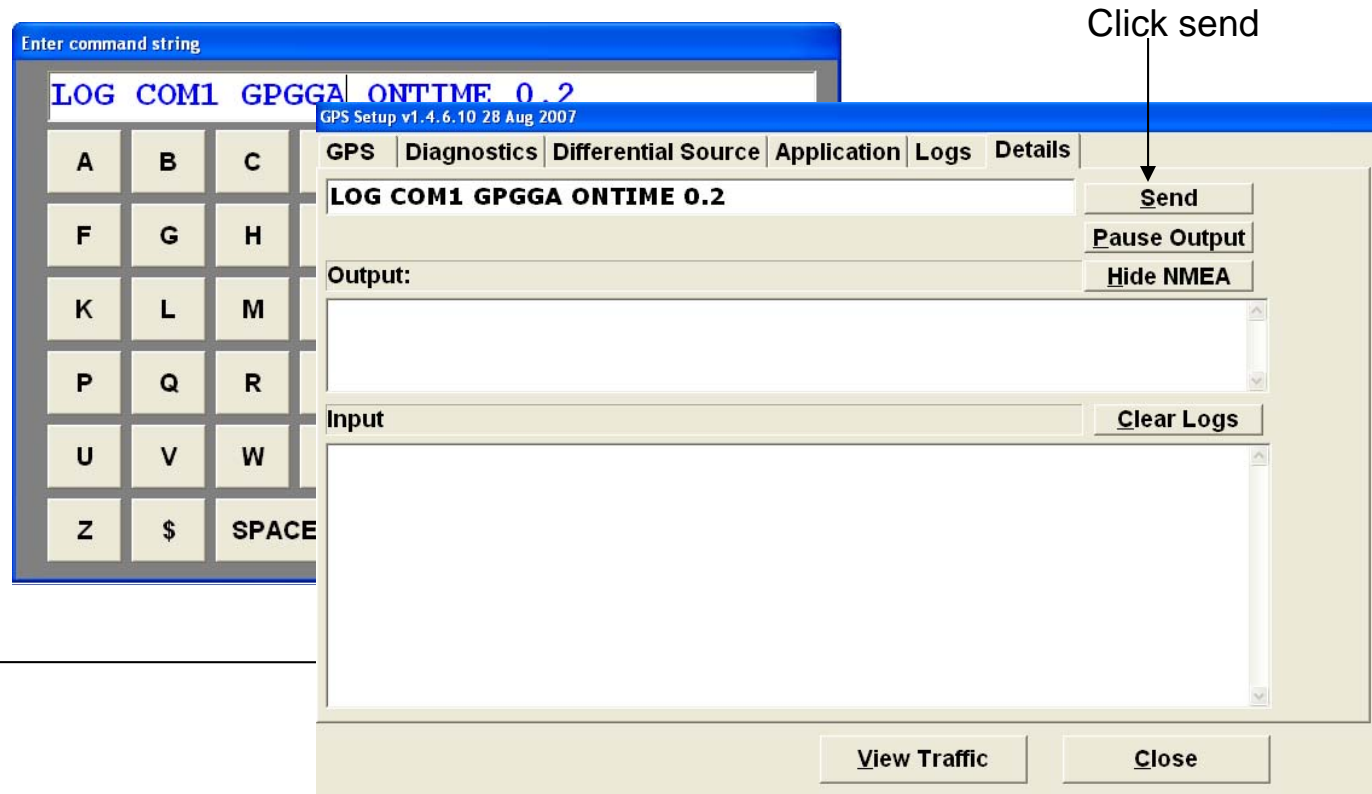
Select OK



The screenshot shows the 'GPS Setup v1.4.6.10 28 Aug 2007' interface. At the top, there are tabs for 'GPS', 'Diagnostics', 'Differential Source', 'Application', 'Logs', and 'Details'. The 'Details' tab is selected. Below the tabs, there is a text input field containing the command 'LOG COM1 GPVTG ONTIME 0.2'. To the right of this field are buttons for 'Send', 'Pause Output', and 'Hide NMEA'. Below the input field is an 'Output:' section with a scrollable area. Below that is an 'Input' section with a scrollable area and a 'Clear Logs' button. At the bottom of the screen are 'View Traffic' and 'Close' buttons. A key pad is overlaid on the left side of the screen, showing a grid of letters (A-Z, \$) and a 'LOG COM' label. An arrow points from the 'Details' tab to the 'Send' button, and another arrow points from the 'Send' button to the text 'Click send'. A third arrow points from the text 'Bring up the key pad...' to the key pad, and a fourth arrow points from the text 'Select OK' to the bottom of the key pad.

Basic WAAS Setup: *Novatel Smart and Smart V1 Antenna's*

Bring up the key pad and type in the command *log com1 gpgga ontime 0.2*



The screenshot shows two overlapping windows from the 'GPS Setup v1.4.6.10 28 Aug 2007' application. The top window, titled 'Enter command string', contains a text input field with the command 'LOG COM1 GPGGA ONTIME 0.2' and a numeric keypad with buttons for letters A-C, F-H, K-M, P-R, U-W, Z, \$, and SPACE. The bottom window is the main configuration interface, with tabs for 'GPS', 'Diagnostics', 'Differential Source', 'Application', 'Logs', and 'Details'. The 'Logs' tab is active, showing the same command 'LOG COM1 GPGGA ONTIME 0.2' in a text field. Below this are buttons for 'Send', 'Pause Output', and 'Hide NMEA'. There are also 'Output:' and 'Input:' text areas, and a 'Clear Logs' button. At the bottom of the main window are 'View Traffic' and 'Close' buttons. An arrow points from the text 'Click send' to the 'Send' button.

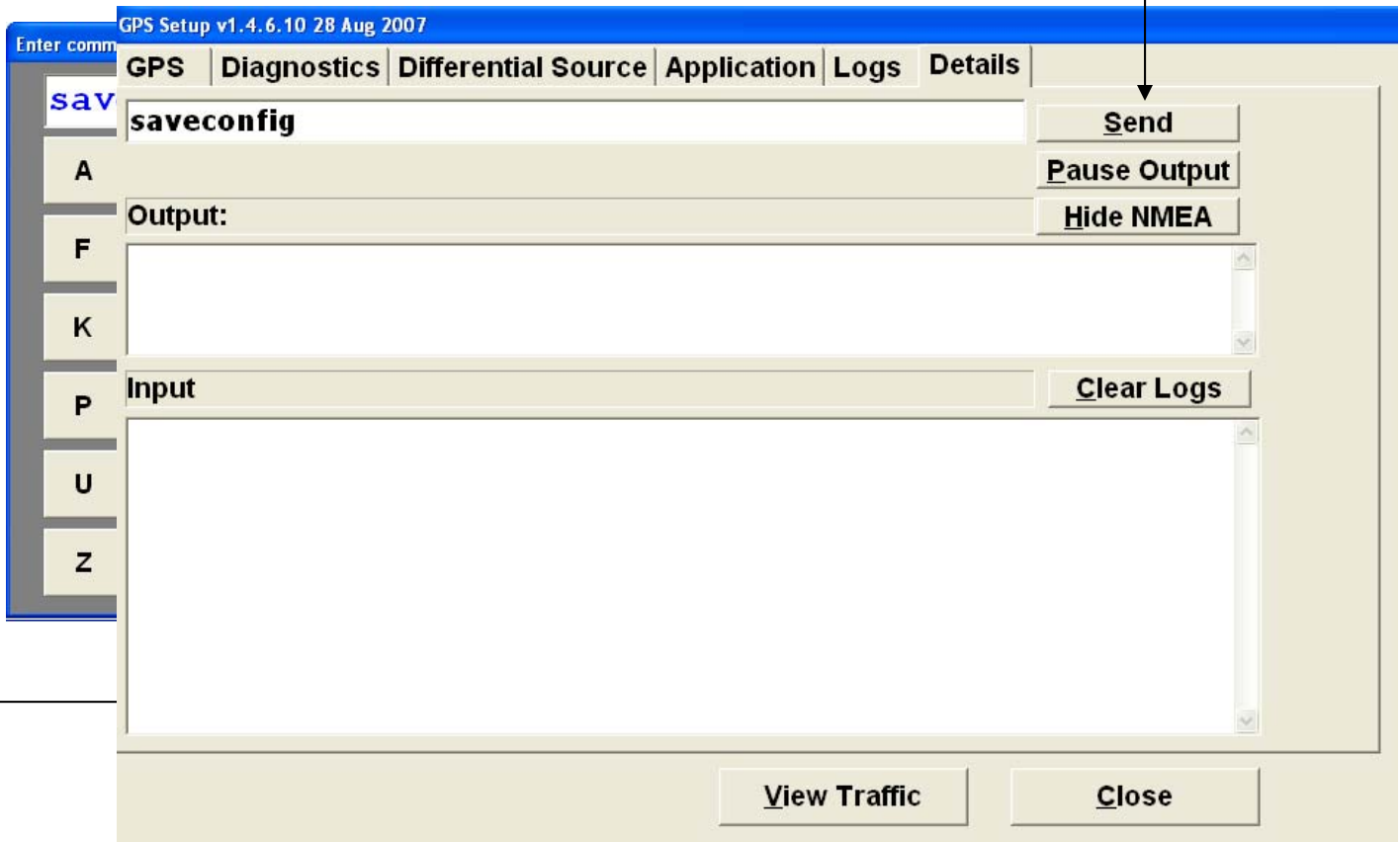
Select OK

Basic WAAS Setup: *Novatel Smart and Smart V1 Antenna's*

Bring up the key pad and type the command *saveconfig*

Select OK

Click send



The screenshot shows the 'GPS Setup v1.4.6.10 28 Aug 2007' interface. The 'Enter comm' window is open, displaying the command 'saveconfig' in the input field. The 'Send' button is highlighted with an arrow pointing to it from the text 'Click send'. The 'View Traffic' and 'Close' buttons are visible at the bottom of the window. The 'Output:' and 'Input' sections are empty.

Basic WAAS Setup: *Novatel Smart and Smart V1 Antenna's*

Select the
Diagnostics Tab
at the top of the
Screen

GPS Setup v1.4.6.10 28 Aug 2007

GPS	Diagnostics	Differential Source	Application		
Position	Plots	Status	Novatel	Omni	Sat Info

Com Port	1	
Com Port Speed	19200	
GGA Update Rate	5	
VTG Update Rate	5	
GPS Quality	9	WAAS
No. of Satellites	07	

View Traffic Close

Status Screen:
User needs all status
bars to be green

Novatel Smart V1 Antenna

The V1 can be set to CDGPS or to Omnistar VBS

To set it the V1 to CDGPS select Set to CDGPS.

The Omnistar serial number will appear here. Phone Omnistar and give them the serial number and tell them you would like a VBS subscription

To set the V1 to Omnistar VBS you click on the Get Omnistar Details button.

Then select Set to Omnistar

