

# FLIGHT RECORDER 1 (FR-1)- GPS LOGGER



The Flight Recorder - 1 telemetry module is a high performance, GPS data logging system which enables local logging of GPS data via onboard Micro-SD storage, temperature, power, and ADC channel data are also logged in separate files. Add a 9V battery, SD-Card, connect antenna, and go! Full data logs available for import later via MicroSD. Also outputs NMEA data on CPU\_TXD/CPU\_RXD host interface and can be interfaced to BT/Wi-Fi/RF.

- 16MIPS RISC CPU for high-performance GPS system processing
  - o Filtering for GPGGA/GPGSA to preserve RF Link bandwidth and real-time background processing
  - Output on CPU\_TXD/CPU\_RXD for interfacing to an external Modem
- SDIO Micro-SD Memory Card support (J6) for data logging
  - FAT16/FAT32 media (up to T10 V2.0 32GB Cards)
- High-performance uBlox LEA-6 GPS Receiver Module with uBlox u-Center USB support
- External SMA connector for active input GPS Receiver antenna
  - Sarantel SL1206R GeoHelix®-P2 high-performance, high-gain, low-noise amplified active input GPS receiver antenna (recommended)

- Up to 12V, 10A input power support
- Temperature Sensing from -55°C to +125°C with 0.5°C Accuracy
- Voltage Metering of Primary battery, Current, and GPS Almanac Battery
- Supported software: any NMEA GPS Program (ExpertGPS, VisualGPS, Google Earth, etc)
- 3V External battery for GPS Almanac back up and uBlox-6 Hot-Start™

## MECHANICAL

Dimensions: 49.35mm W x 91.35mm L (1.94" W x3.59" L) PCB Mounting hole dimensions: 86.65mm x 43.65mm



- J6: Micro-SD Slot: Any Micro-SD card formatted as either FAT16 or FAT32 media is supported.
- J18: GPS Battery, attach GPS 3V Almanac battery to this connector. The connector is keyed for connection.
- J2: uBlox uCenter USB Port
- J11: RF Modem connection, RPSMA plug
- J4: GPS Modem connection, SMA plug
- J12: Power + Switch: Connective positive to +, negative to -, A/B to switch
  - To use without switch, either shunt A/B or connect positive(red) to B lead, and negative(black) to lead.

#### CONFIGURATION JUMPER (CFG/CFGZ)



- Default, Normally pins 11-12 are shorted (which runs GPS processing at boot). Note that this is the 6<sup>th</sup> Jumper position from the edge of the board.

NOTE: When this jumper is removed, the system allows for remote login and control (default password=rfs1)

NOTE: If this jumper is removed, your Base-station will NOT show any data on the display until the "gps" command is issued via the USB connection on the Basestation to the host computer.

## UART INTERFACE

Pin-1 is the square hole, jumper goes 1-2,3-4,etc across. All IO is 3.3V logic levels. UART baud rate is fixed at 9600 baud (9600, N, 8, 1).

Jumper	Pin	Function	
J9	1	3V3_DC	
	2	CPU_TXD	- console output (line based - \r\n)
	4	CPU_RXD	<ul> <li>console input (line based - \r\n)</li> </ul>

#### LEDS

- D22: BPWR glows red with Battery Power
- D14: Activity blinks green with RF Modem activity
- D4: Fix Glows Blue with GPS position
- D3: Sys Toggles with system activity
- D29: SDIO Toggles when writing data to SD-Card

#### GPS CONFIGURATION

Your GPS1 module comes with factory defaults. The uBlox GPS chipset also features a 2 week GPS Almanac (cache) which works in conjunction with the GPS almanac cache battery. The GPS Almanac aids navigation by providing for Ephemeris data at start-up and allows for a so-called "hot-start". When the GPS module is powered down, the GPS Back-up battery keeps the Almanac up to date until the unit is powered back on again. If the GPS almanac is pre-programmed, initial lock times can take as long as 5 minutes while the uBlox chip-set downloads the GPS Almanac over the air (OTA). To accelerate start-up and provide a 2-week cache of data (with battery back-up), the following procedure is recommended for pre-flight configuration.

- 1. Install uCenter (7.02) or later
- 2. Connect the GPS battery to J18



- 3. Connect the main 9.6v battery or turn on the power switch connected to J12  $\,$
- 4. Connect a mini-USB cable to the GPS1 USB port and the other side to the computer



- 5. Start uCenter, select the "Receiver->Port->XXX" where XXX is the USB port found by your computer attached to GPS1. NOTE: you can use DeviceManager under Windows and find the uBlox USB Device port.
- 6. NOTE: once uCenter is installed, the uBlox should be detected under Device Manager. To download the latest version of uCenter, visit <a href="http://www.u-blox.com/">http://www.u-blox.com/</a>
- 7. Select Configuration View as below

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8. Verify that the configuration data will be saved to the device (BBR, FLASH, I2C EEPROM selected)

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9. Verify that NAV5 is set to Airborne Mode

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Note that if the configuration is not set, uCenter will prompt to write back the data to the receiver. Always answer Yes if you are sure of your configuration, if not, press "No"

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10. Verify the Rate is set to 2HZ (500msec) for 1-second real-time response with the Base station receiver

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11. Select "Tools->AssistNow Offline"

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12. Select 14 Days AlmanacPlus, and FLASH update

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The unit is now configured. Be sure to leave the GPS Battery connected to the module so that the GPS Almanac data is preserved up to and during flight. Should the GPS lose telemetry lock during flight, the GPS battery will ensure hot-start and re-acquisition of fix in < 1 second with hot-start enabled.

When completed, use the uCenter menu options: GPS Configuration -> (GPS->File) to save your GPS configuration.

For fast recovery, use the GPS Configuration (File->GPS) option to program your receiver. Verify the firmware and uCenter version first before following this procedure (and note that newer versions of firmware require newer versions of uCenter for correct programming).

Sample configuration files may also be found at http://www.realflightsystems.com/techpubs/ublox/

#### TROUBLESHOOTING

When powering up the board without using a switch, make sure you plug in the connector quickly to avoid transients. When powering up the board using a twist-wire switch, make sure you firmly press the two leads together first and then twist the wire (also to avoid transients).

Note that when properly functioning, D29, SDIO will blink RED when writing data to SD-Card, if you do not see this behavior, power down the board, remove the SD-Card and re-insert it to make sure it is properly seated.

Verify the jumper on CFG\_1 is set - normally pins 11-12 are shorted (which runs GPS processing at boot). Note that this is the 6<sup>th</sup> Jumper position from the edge of the board.

NOTE: removing CFG\_1 jumper pins 11-12 for Basestation-2 users will render their system inoperable until the jumper is re-inserted (in this mode, GPS-1 waits for remote login from the Basetation-1 forever).

#### **BATTERIES**

- DC voltage 6.0 14V DC (LD117STR, LM317)
- Average current: 200-245ma

Note that any battery 6V, 7V, 9V, 12V may be used.

, select one with a current rating of 250mAh for one hour of use, higher mAh ratings for proportionally longer runtime (depending on battery type and chemistry).

#### GPS OPERATIONAL LIMITS

uBlox-6 Operational Limits under good GPS signal conditions and assuming Airborne platform configuration as documented.

- Dynamics: ≤ 4 g
- Altitude: 50,000 m (164,042 ft MSL)
- Velocity: 500 m/s (1,118.47 MPH or 1640.42 feet/second, Mach 1.49)

## COMMAND INTERFACE

When the configuration jumper on pins 11-12 is removed (the 6<sup>th</sup> Jumper position from the edge of the board), and the CPU\_TXD/CPU\_RXD is connected to the host computer (3.3v level CMOS), the system will boot up and provide a remote control serial console. Following is the remote control console procedure using an FTDI 3.3v USB->Serial adapter cable connected to the UART pins.

- 1. Connect the USB port of the Base station to the host PC. Windows will install drivers for the FTD232 serial device.
- 2. For Windows, use any terminal emulation program you have installed (e.g. Hyperterminal), or use Putty (located on the CD). Go to Device Manager and look under Com ports to find the name of the COM port to connect to. Launch Putty, you will want to type the NAME of the Com-Port (e.g. COM23) into "serial line", "9600" into speed, and type the name of the COM-Port (e.g. COM23) into the "Saved Sessions Field". Press "Save".

R PuTTY Configuration		×
Category:		
	Basic options for your PuTTY set	ssion
– Logging – Terminal – Keyboard	Specify the destination you want to connect to Serial line	Speed
	Connection type: Raw Telnet Rlogin SSF	H Serial
Behaviour Translation Selection Colours	Load, save or delete a stored session Saved Sessions COM23	
- Connection - Data - Proxy - Telnet	COM15 COM18 COM19 COM21-DNT	Load
⊷ Rlogin ⊕ SSH – Serial	COM22 COM23 COM23-DNT	Delete
	Close window on exit. Always Never Only on cl	ean exit
About	Open	Cancel

3. Next, click on the Serial item on the list to the left titled "Category"

Reputry Configuration	1.7	X
Category:		
Category: 	Options control Select a serial line Serial line to connect to Configure the serial line Speed (baud) Data bits Stop bits Parity Flow control	lling local serial lines COM23 9600 8 1 None ▼ None ▼
About		Open Cancel

- 4. Confirm flow control off and 8,1,N serial settings. *Note that the default settings for the Putty terminal emulation program have XON/XOFF selected!* Keep in mind that if you use a new USB port on Windows, you may have to go through this process again (a well endowed desktop system may support dozens of USB ports). When satisfied with the new connection profile click on "Session" (under Category) to return to the previous menu. Press "Save", then press "Open".
- 5. Now, the next time you run Putty you may load the configuration and just press "Open".
- 6. Now start putty and reboot the Base station (power cycle)
- 7. Press enter when the prompt below is seen. NOTE: if the enter key is not pressed (e.g. you type nothing when the Base station boots), the USB connection acts as an NMEA output console allowing other programs (e.g. ExpertGPS) to perform real-time mapping of the data.

🔁 COM41 - PuTTY	
J8 [5-6] : JP2 [SDA3] OFF	
J8 [7-8] : JP3 [Base] ON	
J8 [9-10] : JP4 [GPS ] OFF	
J8 [11-12]: JP5 [RSVD] ON	
J8 [13-14]: JP6 [RSVD] OFF	
J8 [15-16]: JP7 [RSVD] OFF	
J8 [17-18]: JP8 [RSVD] ON	
J8 [19-20]: JP9 [RSVD] ON	
J8 [21-22]: PWR VCC 5V	
J8 [7-8] : ON - Base-Station mode enabled J8 [9-10] : OFF - Enter GPS2 console mode rf0: DNT900C - channel: 0 SD:adding/opening SD/MMC (SPI) volume "sd:0:"no SD-Card found! NOTICE: FS initialization failed Real Flight Systems - [GPS2] system init complete Checking for user input on USB system console. Press enter to continue	
checking for user input on our system console, riess enter to continue	
USB Console: Base-station-1 console mode	
Waiting for connnection to remote	. HI ►

8. Boot the GPS-1 transmitter with the jumper removed. Note, one should be careful removing the 2MM jumper, it is not designed to be pried off. Use a small-tipped flat-head screw-driver and gently lift up on the bottom of the jumper.

🛃 COM41 - PuTTY	
PIC24 ADC	
System +/- Power: 10.23 V	
GPS Backup Power: 1.22 V	
Current : 230 mA	
: 0 mA	
J9 Pin 3 : 0.00 V	
J9 Pin 5 : 0.00 V	
J8 Pin 4 : 0.01 V	
: 0.00 V	
SD:adding/opening SD/MMC (SPI) volume "sd:0:"no SD-Card found!	
NOTICE: FS initialization failed	
Real Flight Systems - [GPS1] system init complete	
GPS-2 login	
Password:**	
Login incorrect	
GPS-2 login	
Password:****	
GPS-2 login success	
welcome to GPS-2!	Ŧ
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9. Login using the default password **rfs1** - commands may now be issue to the Telemetry transmitter.

## APPENDIX-I FR-I COMMANDS

gps - go into GPS mode, press "x" to exit

adc - show adc

stat - show statistics

pass <password> - set the password

hn <hostname> - set hostname of the system

tz <offset> - set timezone offset (firmware versions 1.01 and later)

e.g. "tz +8" will set to PST time. (NOTE: use "save" command to make persist across reboots)

tm X - telemetry output mode 0=NMEA0183 1=hostname, NMEA0183

e.g. "tm +1" will output "hostname, \$GPGG.." etc - useful for multiple nodes on the same channel/link

save - save configuration

restore - restore defaults

reboot - reboot the system

#### OPENING NMEA DATA FILES WITH GOOGLE EARTH

- 1) GPS Log files are stored as gpslogXX.log resulting in up to 100 files being named gpslog00.log to gpslog99.log. The date and time stamp of the file is updated every time the file is updated with GPS data. Note that the timestamps are stored in GMT time (which is GPS native time) by default. Basestation-1 users may change the timezone for localtime
- 2) Launch Google Earth, the version used is as shown (6.2.2.6613) CHECK VERSION





## SELECT "ALL FILES"



Double click on the NMEA data file (gpslogXX.log (where XX=0-99). A Dialog is presented to show options for the NMEA data-file import.



# SELECT IMPORT OPTIONS

The above dialog is display, Select "Create KML Tracks", deselect other options. The file is opened and the Globe will move to the tracks just imported.

#### MOVE TO LOCATION



Double clock on the GPS Device, then click on the Tracks, and then the Arrow symbol entitled "No Name". Google Earth will Zoom in on the area of interest, you can move the Google earth knobs to get a better view of the data.

#### **REPOSITION VIEW**



## SAVE GPS TRACK AS KMZ FILE

Right click on the GPS Device and select "Save Place as"



# ELEVATION PROFILE.

To show the Elevation Profile, right click on the tracks as below:



# IMPORTING SENSOR DATA INTO MICROSOFT EXCEL

1) Launch Microsoft Excel, File->Open, All Files Selected

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8 SPI	RESA	23	11.03 V		0.05 V		304 n	nA	28 r	nA	0.02 V		0.02 V			0 V		v	41.9 F		5.5 C*4	19
9 SPI	RESA	26	11.03 V		0.05 V		328 n	nA	28 r	πA	0.02 V		0.02 V			0 V	0	v	41.9 F		5.5 C*4	12
10 \$PI	RFSA	28	11.04 V		0.05 V		292 r	nA	28 r	nA	0.03 V		0.02 V			0 V	0	v	41.9 F		5.5 C*4	A
11 \$P	RFSA	31	11.02 V		0.05 V		308 n	nA	28 r	nA	0.03 V		0.03 V			0 V	0	v	41.9 F		5.5 C*4	47
12 \$PI	RFSA	33	11.05 V		0.05 V		268 n	nA	28 r	nA	0.03 V		0.02 V			0 V	0	v	41.9 F		5.5 C*4	44
13 \$P	RFSA	36	11.03 V		0.05 V		304 n	nA	24 r	mA	0.03 V		0.03 V			0 V	0	v	41.9 F		5.5 C*4	41
14 \$PI	RFSA	38	11.04 V		0.05 V		284 n	nA	28 r	mA	0.03 V		0.02 V			0 V	0	v	41.9 F		5.5 C*4	IC I
15 \$P	RFSA	40	11.04 V		0.05 V		260 r	nA	28 r	nA	0.03 V		0.03 V			0 V	0	v	42.7 F		6 C*4	13
16 \$P	RFSA	43	11.04 V		0.05 V		280 r	nA	28 r	nA	0.02 V		0.02 V			0 V	0	v	42.7 F		6 C*4	IE
17 \$P	RFSA	45	11.04 V		0.05 V		288 r	nA	28 r	mA	0.03 V		0.02 V			0 V	0	v	42.7 F		6 C*4	11
18 \$P	RFSA	48	11.03 V		0.05 V		284 n	nA	28 r	nA	0.03 V		0.03 V			0 V	0	v	42.7 F		6 C*4	16
19 \$PI	RFSA	50	11.08 V		0.05 V		212 r	nA	28 r	mA	0.03 V		0.02 V			0 V	0	v	42.7 F		6 C*4	IA
20 \$PI	RFSA	53	11.07 V		0.05 V		220 r	nA	28 r	mA	0.03 V		0.03 V			0 V	0	v	42.7 F		6 C*4	16
21 \$PI	RFSA	55	11.08 V		0.05 V		220 r	nA	28 r	mA	0.03 V		0.03 V			0 V	0	v	42.7 F		6 C*4	(F
22 \$PI	RFSA	57	11.07 V		0.05 V		220 r	nA	28 r	mA	0.03 V		0.02 V			0 V	0	v	42.7 F		6 C*4	13
23 \$PI	RFSA	60	11.07 V		0.05 V		212 r	nA	28 r	nA	0.03 V		0.03 V			0 V	0	v	42.7 F		6 C*4	17
24 \$PI	RFSA	62	11.07 V		0.05 V		208 r	nA	28 r	nA	0.03 V		0.03 V			0 V	0	v	43.7 F		6.5 C*4	iA
25 \$PI	RFSA	65	11.08 V		0.05 V		228 r	nA	28 r	nA	0.02 V		0.03 V			0 V	0	v	43.7 F		6.5 C*4	(1
26 \$PI	RFSA	67	11.07 V		0.05 V		208 r	nA	28 r	nA	0.03 V		0.03 V			0 V	(	v	43.7 F		6.5 C*4	IF .
27 \$PI	RFSA	69	11.07 V		0.05 V		224 r	nA	28 r	nA	0.03 V		0.03 V			0 V	(	v	43.7 F		6.5 C*4	IF .
28 \$PI	RFSA	72	11.06 V		0.05 V		228 r	nA	28 r	mA	0.03 V		0.03 V			0 V	(	v	43.7 F		6.5 C*4	18
29 \$PI	RFSA	74	11.07 V		0.05 V		212 r	nA	28 r	mA	0.03 V		0.02 V			0 V	(	v	43.7 F		6.5 C*4	17
30 \$PI	RFSA	77	11.08 V		0.05 V		212 r	nA	28 r	nA	0.03 V		0.03 V			0 V	0	V	43.7 F		6.5 C*4	A
31 \$P	RESA	79	11.06 V		0.05 V		232 n	nA	28 r	nA	0.03 V		0.03 V			0 V	0	V	43.7 F		6.5 C*4	18
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3	\$PRFSA	9	11.05	v	0.05	<u>v                                    </u>	$r \sim$	<u>v v</u>	28 m/	۱	0.03 \	/	0.02 \	v	0	v	0	v	41	F	5	C*7F
4	\$PRFSA	12	11.05	v	0.05	3-D Line			28 m/	۱	0.03 \	/	0.03 \	v	0	v	0	v	41	F	5	C*4C
5	\$PRFSA	14	11.06	v	0.05				28 m/	۱	0.03 \	/	0.02 \	v	0	v	0	V	41	F	5	C*4C
6	\$PRFSA	16	11.05	v	0.05				28 m/	۱	0.03 \	/	0.02 \	v	0	v	0	V	41	F	5	C*43
7	SPRFSA	19	11.05	v	0.05	3-1	D Line		3 m/	۱	0.03 \	/	0.02 \	v	0	v	0	v	41	F	5	C*4B
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9	SPRFSA	23	11.03	V	0.05	v a	IS a S-D HD	bon on thre	e axes. ß m/	<b>\</b>	0.02 \	/	0.02	V	0	V	0	V	41.9	F	5.5	C*49
10	SPRFSA	26	11.03	V	0.05	V	3	28 mA	28 m/	<b>\</b>	0.02 \	/	0.02 \	V	0	V	0	V	41.9	F	5.5	C*42
11	SPRESA	28	11.04	v	0.05	v	2	92 mA	28 m/	<b>\</b>	0.03 \		0.02	v	0	v	0	v	41.9	-	5.5	C*4A
12	SPRESA	31	11.02	v	0.05	V	3	08 mA	28 m/		0.03		0.03	v	0	v	0	v	41.9	-	5.5	C*4/
13	SPRESA	33	11.05	v	0.05	V	2	68 mA	28 m/		0.03 \		0.02	v	0	v	0	v	41.9	-	5.5	C*44
14	SPRESA CODECA	36	11.03	v	0.05	V	3	04 mA	24 m/		0.03	,	0.03	v	0	v	0	v	41.9	-	5.5	C*41
15	SPRESA CODECA	58	11.04	V	0.05	V	2	84 MA	28 m/		0.03	,	0.02	v	0	v	0	v	41.9	-	5.5	C*40
10	SPRESA CODECA	40	11.04	V	0.05	V	2	00 mA	20 1114		0.03	,	0.03	v	0	v	0	v	42.7	-	0	C 45
10	CODECA	40	11.04	v	0.05	v	2	00 mA	28 m/		0.02	,	0.02	v	0	v	0	v	42.7	-		C 4E
10	CODECA	40	11.04	v	0.05	v	2	94 mA	20 m/		0.03	,	0.02	v	0	v	0	v	42.7	-		C*41
20	CODEC A	40	11.03	v	0.05	v	2	12 mA	28 m/		0.03	,	0.03	v	0	v	0	v	42.7	-	6	C*40
20	SDRESA	53	11.00	v	0.05	v	2	20 mA	28 m/		0.03 \	,	0.02	v	0	v	0	v	42.7	-	6	C*46
22	SPRESA	55	11.07	v	0.05	v	2	20 mA	28 m/		0.03 \		0.03 \	v	0	v	0	v	42.7	F	6	C*46
23	SPRESA	57	11.07	v	0,05	v	2	20 mA	28 m/		0.03 \	/	0.02 \	v	0	v	0	v	42.7	F	6	C*43
24	<b>SPRESA</b>	60	11.07	v	0.05	V	2	12 mA	28 m/		0.03	/	0.03 \	v	0	v	0	V	42.7	-	6	C*47
25	ŚPRFSA	62	11.07	v	0.05	v	2	08 mA	28 m/		0.03 \	/	0.03 \	v	0	v	0	v	43.7	F	6.5	C*4A
26	<b>\$PRFSA</b>	65	11.08	v	0.05	v	2	28 mA	28 m/	<b>\</b>	0.02 \	/	0.03 \	v	0	v	0	v	43.7	F	6.5	C*41
27	SPRFSA	67	11.07	v	0.05	V	2	08 mA	28 m/		0.03	/	0.03	v	0	v	0	v	43.7	F	6.5	C*4F
28	<b>\$PRFSA</b>	69	11.07	v	0.05	v	2	24 mA	28 m/		0.03 \	/	0.03 \	v	0	v	0	v	43.7	F	6.5	C*4F
29	\$PRFSA	72	11.06	v	0.05	v	2	28 mA	28 m/	۱	0.03	/	0.03 \	v	0	v	0	v	43.7	F	6.5	C*48
30	\$PRFSA	74	11.07	v	0.05	v	2	12 mA	28 m/	۱	0.03 \	/	0.02	v	0	v	0	v	43.7	F	6.5	C*47
31	\$PRFSA	77	11.08	v	0.05	v	2	12 mA	28 m/	۱	0.03 \	/	0.03 \	v	0	v	0	v	43.7	F	6.5	C*4A
32	\$PRFSA	79	11.06	v	0.05	v	2	32 mA	28 m/	<b>L</b>	0.03 \	/	0.03 \	v	0	v	0	v	43.7	F	6.5	C*48 🗸
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2	<b>\$PRFSA</b>	7	10.95	v	0.05	v	264 mA	28	mA	0.03 V		0.03 V		0 V	0	v	41 F		5 C*	*7A
з	\$PRFSA	9	11.05	v	0.05	v	288 mA	28	mA	0.03 V		0.02 V		0 V	0	v	41 F		5 C*	*7F
4	\$PRFSA	12	11.05	v	ir									V 🕅	0	v	41 F		5 C*	*4C
5	\$PRFSA	14	11.06	v										0 V	0	v	41 F		5 C*	*4C
6	\$PRFSA	16	11.05	V	Plot	Area								0 V	0	V	41 F		5 C*	*43
7	\$PRFSA	19	11.05	v										0 V	0	v	41 F		5 C*	*4B
8	\$PRFSA	21	11.04	v	12									0 V	0	v	41 F		5 C*	*44
9	\$PRFSA	23	11.03	V	10 -									0 V	0	v	41.9 F		5.5 C*	*49
10	\$PRFSA	26	11.03	V	8 -									0 V	0	v	41.9 F		5.5 C*	*42
11	\$PRFSA	28	11.04	V	_									0 V	0	v	41.9 F		5.5 C*	*4A
12	\$PRFSA	31	11.02	v	6									0 V	0	v	41.9 F		5.5 C*	*47
13	<b>\$PRFSA</b>	33	11.05	V	4									0 V	0	v	41.9 F		5.5 C*	*44
14	\$PRFSA	36	11.03	v	2								Series1	0 V	0	v	41.9 F		5.5 C*	*41
15	SPRFSA	38	11.04	v										0 V	0	v	41.9 F		5.5 C*	*4C
16	SPRFSA	40	11.04	V	0	- 1 0 0								0 V	0	V	42.7 F		6 C*	*43
17	ŞPRFSA	43	11.04	V	_	9 1 6	25 316 379 379 379 442 442 68 68	1 4 h 0 m		100 million (100 m				0 V	0	V	42.7 F		6 C*	*4E
18	SPRFSA	45	11.04	V	_		10100	65 82 82 82 83 83 83	946	10 8 11 4		Serie	s1	o V	0	V	42.7 F		6 C*	•41
19	SPRESA	48	11.03	V	_					11 11 12 13	450	513		0 V	0	V	42.7 F		6 C*	*46
20	ŞPRFSA	50	11.08	V	_							- 2		0 V	0	V	42.7 F		6 C*	*4A
21	SPRESA	53	11.07	V	-									0 V	0	V	42.7 F		6 C*	*46
22	SPRESA	55	11.08	V	-									0 V	0	V	42.7 F		6 0	*41
23	SPRESA CODECA	57	11.07	V										0 V	0	V	42.7 F		6 C*	*43
24	CODEC A	60	11.07	V	0.05	v	208 m A	20		0.02 1/		0.02 1/			0	V	42.7 F		65.01	*47
25	ODECA	62	11.07	V	0.05	v	208 mA	20	mA mA	0.03 V		0.03 V		0 V	0	V	43.7 F		6.5 C1	*4A
20	CODEC A	67	11.00	V	0.05	v	228 mA	20	mA	0.02 V		0.05 V		0 V	0	V	43.7 F		6.5 C	*1 */E
20	CODEC A	60	11.07	V	0.05	v	200 mA	20	mA	0.03 V		0.03 V		0 1	0	v	43.7 1		6.5 C1	*40
20	CODEC A	72	11.07	v	0.05	v	224 mA	20	mA	0.03 V		0.03 V		0 V	0	v	43.7 F		65 C	*/10
30	SDRESA	74	11.00	v	0.05	v	212 mA	20	mΔ	0.03 V		0.03 V		0 V	0	v	43.7 F		6.5 C*	•40
31	SDRESA	77	11.09	v	0.05	v	212 mA	20	mΛ	0.03 V		0.02 V		0 V	0	v	43.7 F		6.5 C*	*40
32	SPRESA	79	11.06	v	0.05	v	232 mA	20	mA	0.03 V		0.03 V		0 V	0	v	43.7 F		6.5 C*	*48
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2	SPRESA	7	10.95 V	0.000	5 1	[K.] ["""	28 m	Δ.	0.03 \	/	0.03 V		01 10113		02 1010	v	41 6		remp ( c)	C*74
3	SPRESA	9	11.05 V	0.0	5 2		28 m	Δ	0.03 \		0.02 V		0.1	,	0	v	41 6		5	C*7E
4	SPRESA	12	11.05 V	0.0	5 200		28 m	1A	0.03	/	0.03 V		0 \	/	0	v	41 F		5	C*4C
5	SPRESA	14	11.06 V	0.0	5 S-D Line	1	28 m	1A	0.03 \	/	0.02 V		0 1	v .	0	v	41 F		5	C*4C
6	\$PRFSA	16	11.05 V	0.0	5		28 m	A	0.03 \	/	0.02 V		0 1	/	0	v	41 F		5	C*43
7	\$PRFSA	19	11.05 V	0.0	5	3-D Line		A	0.03 \	/	0.02 V		0	/	0	v	41 F		5	C*48
8	<b>\$PRFSA</b>	21	11.04 V	0.0	5 alla All o	Display each row	or column of data	A	0.03 \	/	0.03 V		0 1	v	0	v	41 F		5	C*44
9	\$PRFSA	23	11.03 V	0.0	5 V	as a 3-D ribbon or	n three axes.	A	0.02 \	/	0.02 V		0 \	/	0	v	41.9 F		5.5	C*49
10	\$PRFSA	26	11.03 V	0.0	5 V	328 mA	28 m	hΑ	0.02 \	/	0.02 V		0	/	0	v	41.9 F		5.5	C*42
1	\$PRFSA	28	11.04 V	0.0	5 V	292 mA	28 m	hΑ	0.03 \	/	0.02 V		0 1	v	0	v	41.9 F		5.5	C*4A
13	\$PRFSA	31	11.02 V	0.0	5 V	308 mA	28 m	hΑ	0.03 \	/	0.03 V		0	/	0	v	41.9 F	-	5.5	C*47
13	\$PRFSA	33	11.05 V	0.0	5 V	268 mA	28 m	hΑ	0.03 \	/	0.02 V		0	v	0	v	41.9 F		5.5	C*44
14	\$PRFSA	36	11.03 V	0.0	5 V	304 mA	24 m	hA	0.03 \	/	0.03 V		0	/	0	v	41.9 F	-	5.5	C*41
13	\$PRFSA	38	11.04 V	0.0	5 V	284 mA	28 m	ιA	0.03 \	/	0.02 V		0	/	0	V	41.9 F	-	5.5	C*4C
10	\$PRFSA	40	11.04 V	0.0	5 V	260 mA	28 m	ıΑ	0.03 \	/	0.03 V		0	/	0	v	42.7 F		6	C*43
1	\$PRFSA	43	11.04 V	0.0	5 V	280 mA	28 m	hΑ	0.02 \	/	0.02 V		0	v	0	v	42.7 F		6	C*4E
18	\$PRFSA	45	11.04 V	0.0	5 V	288 mA	28 m	hΑ	0.03 \	/	0.02 V		0	/	0	v	42.7 F	-	6	C*41
19	\$PRFSA	48	11.03 V	0.0	5 V	284 mA	28 m	hΑ	0.03 \	/	0.03 V		0	/	0	v	42.7 F		6	C*46
20	SPRFSA	50	11.08 V	0.0	5 V	212 mA	28 m	hΑ	0.03 \	/	0.02 V		0 \	V	0	v	42.7 F		6	C*4A
2:	SPRFSA	53	11.07 V	0.0	5 V	220 mA	28 m	1A	0.03 \	/	0.03 V		0	/	0	V	42.7 F		6	C*46
2.	SPRFSA	55	11.08 V	0.0	5 V	220 mA	28 m	1A	0.03 \		0.03 V		0	/	0	V	42.7 F		6	C*4F
2	SPRESA	57	11.07 V	0.0	5 V	220 mA	28 m	1A	0.03 \	/	0.02 V		0	V	0	V	42.7 F	-	6	C*43
24	SPRESA	60	11.07 V	0.0	5 V	212 mA	28 m	1A	0.03 \		0.03 V		0	V	0	V	42.7 F		6	C*4/
2	SPRFSA	62	11.07 V	0.0	5 V	208 mA	28 m	1A	0.03 \	,	0.03 V		0	v ,	0	v	43.7 F		6.5	C*4A
20	SPRESA CODESA	65	11.08 V	0.0	5 V	228 mA	28 m	IA .	0.02 \	,	0.03 V		0	v ,	0	v	43.7 1	-	6.5	C*41
2	SPRESA	6/	11.07 V	0.0	5 V	208 mA	28 m		0.03 \	,	0.03 V		0	v ,	0	v	43.7 1		6.5	CT4F
20	CODESA	59	11.07 V	0.0	5 V	224 mA	28 m		0.03 \	,	0.03 V		0	v ,	0	v	43.71		6.5	C*4P
2	CODECA	72	11.00 V	0.0	5 V	228 mA	28 11	14	0.03 \	,	0.03 V		0	v 7	0	v	43.7 1		6.5	C 40 C*47
21	SDRESA	74	11.07 V	0.0	5 V	212 mA	20 11	14	0.03 1	,	0.02 V		0.1	• /	0	v	45.7 1		6.5	C*40
2	SPRESA	70	11.06 V	0.0	5 V	232 mA	20 11	Δ	0.03 1	,	0.03 V		0.1		0	v	43.7 0		6.5	C*48
14		nsors 🖓	11.00 V	0.0	•••	2.52	2011		5.05 1		0.03 4					•	45.71		0.5	
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# PLOT MAIN BATTERY CURRENT



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## PLOT TEMPERATURE

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| 2 \$P  
  | RFSA  | 7  | 10.95 V   
   | 0.05   | 1000  |  
  |  | 2   | 8 mA  | 0.03   | v   | 0.03 V   
   | ,         | 01 0010   | 0 V   | 02 00103   | v   | 41   | F   
  | 5 C*7A  |         |
| 3 \$P  
  | RFSA  | 9  | 11.05 V   
   | 0.05   |   | $\mathbb{V}$   
  | <u>~</u>   | 2   | 8 mA  | 0.03   | v   | 0.02 V   
   | /         |   | 0 V   | 0  | V   | 41   | F   
  | 5 C*7F  |         |
| 4 \$P  
  | RESA  | 12   | 11.05 V<br>11.06 V  
   | 0.05   | 3-D Lin   | e  
  |  | 2   | 8 mA<br>8 mA  | 0.03   | v<br>v  | 0.03 V   
   | ,         |   |   | 0  | v<br>v  | 41   | F   
  | 5 C*4C  | -1      |
| 6 \$P  
  | RFSA  | 16   | 11.05 V   
   | 0.05   |   |  
  |  | 2   | 8 mA  | 0.03   | v   | 0.02 V   
   | <i>,</i>  |   | 0 V   | 0  | v   | 41   | F   
  | 5 C*43  |         |
| 7 \$P  
  | RFSA  | 19   | 11.05 V   
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  |  |   | 8 mA  | 0.03   | v   | 0.02 V   
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  | 5 C*4B  |         |
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  | RESA  | 21   | 11.04 V   
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  | row or colu  | umn of data   | 8 mA<br>8 mA  | 0.03   | V   | 0.03 V   
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  | 5 C*44  | -1      |
| 10 \$P   
  | RFSA  | 26   | 11.03 V   
   | 0.05   | v   | is a 3-D ribbi<br>32   
  | on on three<br>28 mA   | e axes.<br>2  | 8 mA  | 0.02   | v   | 0.02 V   
   | ,         |   | 0 V   | 0  | v   | 41.9   | F   
  | 5.5 C*42  |         |
| 11 \$P   
  | RFSA  | 28   | 11.04 V   
   | 0.05   | V   | 29   
  | 92 mA  | 2   | 8 mA  | 0.03   | v   | 0.02 V   
   | 1         |   | 0 V   | 0  | V   | 41.9   | F   
  | 5.5 C*4A  |         |
| 12 \$P   
  | RFSA  | 31   | 11.02 V   
   | 0.05   | V<br>V  | 30   
  | 08 mA  | 2   | 8 mA<br>8 mA  | 0.03   | V   | 0.03 V   
   | /<br>/    |   | 0 V   | 0  | V   | 41.9   | F   
  | 5.5 C*47  | -1      |
| 14 \$P   
  | RFSA  | 36   | 11.03 V   
   | 0.05   | v   | 30   
  | 04 mA  | 2   | 4 mA  | 0.03   | v   | 0.02 V   
   | ,         |   | 0 V   | 0  | v   | 41.9   | F   
  | 5.5 C*41  | -       |
| 15 \$P   
  | RFSA  | 38   | 11.04 V   
   | 0.05   | v   | 28   
  | 84 mA  | 2   | 8 mA  | 0.03   | v   | 0.02 V   
   | 1         |   | 0 V   | 0  | v   | 41.9   | F   
  | 5.5 C*4C  |         |
| 16 \$P   
  | RFSA  | 40   | 11.04 V   
   | 0.05   | V   | 26   
  | 50 mA  | 2   | 8 mA  | 0.03   | V   | 0.03 V   
   | '         |   | 0 V   | 0  | V   | 42.7   | F   
  | 6 C*43  | -1      |
| 17 SP  
  | RESA  | 43   | 11.04 V<br>11.04 V  
   | 0.05   | v<br>v  | 28   
  | 30 mA<br>88 mA   | 2   | 8 mA<br>8 mA  | 0.02   | V<br>V  | 0.02 V   
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  | 6 C*4E  | -1      |
| 19 \$P   
  | RFSA  | 48   | 11.03 V   
   | 0.05   | v   | 28   
  | 34 mA  | 2   | 8 mA  | 0.03   | v   | 0.03 V   
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  | 6 C*46  |         |
| 20 \$P   
  | RFSA  | 50   | 11.08 V   
   | 0.05   | v   | 21   
  | l2 mA  | 2   | 8 mA  | 0.03   | v   | 0.02 V   
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  | 6 C*4A  |         |
| 21 \$P   
  | RFSA  | 53   | 11.07 V   
   | 0.05   | V   | 22   
  | 20 mA  | 2   | 8 mA  | 0.03   | V   | 0.03 V   
   | ,         |   | 0 V   | 0  | V   | 42.7   | F   
  | 6 C*46  | -1      |
| 22 SP<br>23 SP   
  | RESA  | 57   | 11.08 V<br>11.07 V  
   | 0.05   | v   | 22   
  | 20 mA<br>20 mA   | 2   | 8 mA<br>8 mA  | 0.03   | v   | 0.03 V<br>0.02 V   
   | ,         |   | 0 V<br>0 V  | 0  | v   | 42.7   | F   
  | 6 C*43  | -       |
| 24 \$P   
  | RFSA  | 60   | 11.07 V   
   | 0.05   | v   | 21   
  | L2 mA  | 2   | 8 mA  | 0.03   | v   | 0.03 V   
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  | 6 C*47  |         |
| 25 \$P   
  | RFSA  | 62   | 11.07 V   
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  | 6.5 C*4A  |         |
| 26 \$P   
  | RFSA  | 65   | 11.08 V   
   | 0.05   | V<br>V  | 22   
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  | 6.5 C*41  | -1      |
| 27 \$P   
  | RFSA  | 69   | 11.07 V   
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| 29 \$P   
  | RFSA  | 72   | 11.06 V   
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  | 6.5 C*48  |         |
| 30 \$P   
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   | U V V<br>Temp ( C) LRC<br>5 C <sup>+</sup> 40<br>5 C <sup>+</sup> 44<br>5 C <sup></sup>   | PM X    | | | | | | | | | | | | | | | | | | | | |
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| T         T           1         Tat           2         SP           3         SP           4         SP           5         SP           7         SP           8         SP           10         SP           11         Tat           12         SP           13         SP           14         SP           15         SP           16         SP           17         SP           18         SP           19         SP           20         SP           21         SP           22         SP           22         SP  | A Carte Mone<br>Control Control   | Charles Charle   | Page Layout<br>Page   |  | AN     AN     Another and the second s   | Construction     C | Ann 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2  | unb D<br>Get Started<br>1<br>USer Cur<br>2<br>1<br>USer Cur<br>2            | Co Chart Too  | K VI Volts 0.05  | Si sen  | M<br>V2 Volts<br>0.03 V  | N N       | O<br>UI Volts   | Burn         I           I         I  | Q<br>U2 Volts<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0             | R<br>R<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V   | S<br>Temp (F)<br>411<br>411<br>411<br>411<br>419<br>41.9<br>41.9<br>41.9<br>41.9   | T<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F   | U V<br>Temp (C) LRC<br>5 C*7A<br>5 C*7A<br>5 C*4C<br>5 C*4B<br>5 C*44<br>5.5 C*42<br>5.5 C*44<br>5.5 C*4  |         |
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| T         T           Charn         Charn           Charn         Charn           T         Ta           2         SP           3         SP           4         SP           5         SP           6         SP           7         SP           9         SP           10         SP           11         SP           12         SP           13         SP           14         SP           15         SP           16         SP           17         SP           18         SP           19         SP           20         SP           21         SP           22         SP           23         SP           24         SP           25         SP   | A Control of the second  | Reverse and the second  | Page Layout<br>Page Layout<br>Witch Select<br>Column Data<br>Data<br>rt 4<br>C Main Batt<br>10.95 V   |  | AN     Micro     Anone     Anononone     Anone     Anone     Anone     Anone     Anone     Anone  | Pot Ares  | H H Irrent IslamA  | UNB<br>Get Started<br>User Cur<br>User Cur                                  | Co Chart Too Chart Too Design J J Frent S mA Control Contro | K         V1 Volts           0:000         0:000   | Server Permat   | Chart Styles<br>Chart Styles<br>M<br>V2 Volts<br>0 03 W<br>Serie<br>Serie  | N 1       | O<br>Ul Volts   | b         P           g         V           y         V   | Q<br>U2 Volts<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0             | R<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V  | S<br>Temp (F)<br>41<br>41<br>41<br>41<br>41<br>41<br>41<br>9<br>41.9<br>41.9<br>41.9<br>4  | T<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F   | U V V<br>Temp(C)LRC<br>5 C*7A<br>5 C*7F<br>5 C*4C<br>5 C*42<br>5 C*42<br>5 C*44<br>5 C*44<br>5 C*44<br>5 C*44<br>5 C*44<br>5 C*44<br>5 C*44<br>5 C*44<br>5 C*44<br>6 C*45<br>6 C*44<br>6 C*46<br>6 C*44<br>6 C*46<br>6 C*43<br>6 C*43<br>6 C*47<br>6 C*43<br>6 C*44<br>6 C*44<br>6 C*45<br>6 C*43<br>6 C*47<br>6 C*43<br>6 C*47<br>6 C  |         |
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| T         S           Chart         Chart           1         Tap           2         SP           4         SP           5         S           4         SP           5         S           7         SP           10         SP           12         SP           13         SP           14         SP           15         SP           16         SP           17         SP           18         SP           19         SP           21         SP           22         SP           23         SP           21         SP           22         SP           23         SP           24         SP           27         SP           28         SP           29         SP   | A Carte and a construction of the construction  | Charles Charle   | Page Layout<br>Page Layout<br>Vitch Select<br>Column Data<br>Data<br>rt 4<br>C Main Batt<br>10.95 V   |  | AN   | Content of the second sec | H H Irrent IslamA  | UNB<br>Cet Started<br>USer Cur<br>USer Cur<br>2                             | Co Chart Too Design J J Frent S mA Call Call Call Call Call Call Call Cal   | K VI Volts<br>0.05<br>0.05<br>0.05   | Format  | M<br>Chart Styles<br>M<br>V2 Volts<br>0.03 V   | N 1       | ©<br>U1 Volts<br>Series1  | Barrier         C           Q         V           Q         V           V         V   | Q<br>U2 Volts<br>U2 Volts<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | R           R           V | S<br>Temp (F)<br>411<br>411<br>411<br>411<br>419<br>41.9<br>41.9<br>41.9<br>41.9<br>41.9<br>41.9<br>41.9<br>41.9<br>41.9<br>41.9<br>41.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>42.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7<br>43.7 | T<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F   | U V<br>Temp ( C) LRC<br>5 C <sup>7</sup> A<br>5 C <sup>7</sup> C<br>5 C <sup>4</sup> C<br>5 C <sup>4</sup> C<br>5 C <sup>4</sup> A<br>5 C <sup>4</sup> C<br>5 C <sup>4</sup> A<br>5 C <sup>4</sup> A<br>6 C <sup>4</sup> C<br>6 C <sup>4</sup> A<br>6 |         |
| T         F           Chart         Chart           1         Tap           2         SP           3         SP           4         SP           5         SP           9         SP           11         SP           12         SP           13         SP           14         SP           15         SP           16         SP           17         SP           18         SP           18         SP           12         SP           20         SP           21         SP           22         SP           23         SP           24         SP           25         SP           26         SP           27         SP           28         SP           29         SP           28         SP           29         SP           28         SP           29         SP           29         SP           29         SP           29 <t< td=""><td>Ident         Ident           Ident         Ident           Ident</td></t<> <td>Charles Charles Charle</td> <td>Ray Carlos Control Con</td> <td></td> <td>AN</td> <td>C C C C C C C C C C C C C C C C C</td> <td>H<br/>H<br/>H<br/>H<br/>H<br/>H<br/>H<br/>H<br/>H<br/>H<br/>H<br/>H<br/>H<br/>H</td> <td>UNB Cet Started</td> <td>Co Chart Too Design J Frent 8 mA C200 C1 C1 C200 C1 C1 C1 C200 C1 C1 C1 C200 C1 /td> <td></td> <td>Server Permat</td> <td>Chart Styles<br/>M V2 Volts<br/>0 03 V<br/>Gross<br/>Serie<br/>Serie</td> <td>N /</td> <td>O<br/>Ul Volts</td> <td>Barrier         P           Q         V           V         V</td> <td>Q<br/>U2 Volts<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td>R           V</td> <td>S<br/>Temp(F)<br/>41<br/>41<br/>41<br/>41<br/>41<br/>41<br/>41<br/>41<br/>41<br/>41</td> <td>T<br/>F<br/>F<br/>F<br/>F<br/>F<br/>F<br/>F<br/>F<br/>F<br/>F<br/>F<br/>F<br/>F<br/>F<br/>F<br/>F<br/>F<br/>F<br/>F</td> <td>U V<br/>Temp (C) LRC<br/>5 C*7A<br/>5 C*7F<br/>5 C*4C<br/>5 C*43<br/>5 C*44<br/>5.5 C*44<br/>5.5 C*44<br/>5.5 C*44<br/>5.5 C*44<br/>5.5 C*44<br/>5.5 C*44<br/>6 C*43<br/>6 C*44<br/>6 C*45<br/>6 C*45</td> <td></td> | Ident         Ident           Ident   | Charles Charle   | Ray Carlos Control Con  |  | AN  | C C C C C C C C C C C C C C C C C   | H<br>H<br>H<br>H<br>H<br>H<br>H<br>H<br>H<br>H<br>H<br>H<br>H<br>H   | UNB Cet Started   | Co Chart Too Design J Frent 8 mA C200 C1 C1 C200 C1 C1 C1 C200 C1 C1 C1 C200 C1   |  | Server Permat   | Chart Styles<br>M V2 Volts<br>0 03 V<br>Gross<br>Serie<br>Serie  | N /       | O<br>Ul Volts   | Barrier         P           Q         V           V         V   | Q<br>U2 Volts<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0             | R           V | S<br>Temp(F)<br>41<br>41<br>41<br>41<br>41<br>41<br>41<br>41<br>41<br>41   | T<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F   | U V<br>Temp (C) LRC<br>5 C*7A<br>5 C*7F<br>5 C*4C<br>5 C*43<br>5 C*44<br>5.5 C*44<br>5.5 C*44<br>5.5 C*44<br>5.5 C*44<br>5.5 C*44<br>5.5 C*44<br>6 C*43<br>6 C*44<br>6 C*45<br>6 C*45   |         |
| T         T           Chart         Chart           1         Ta           2         SP           3         SP           4         SP           6         SP           7         SP           9         SP           11         SP           12         SP           13         SP           14         SP           15         SP           10         SP           11         SP           12         SP           13         SP           20         SP           21         SP           22         SP           23         SP           26         SP           26         SP           28         SP           29         SR           29         SP           28         SP           29         SP           20         SP           28         SP           29         SP           29         SP           29         SP           29   | tions of the second sec  | Charter B<br>Conserver<br>B<br>Conserver<br>B<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter<br>Charter | Page Layout<br>Page Layout<br>Witch Select<br>Column Data<br>Data<br>rt 4<br>C Main Batt<br>10.95 V   |  | AN  | Pot Ares  | H rrent<br>M mA  | UNB<br>Get Started<br>User Cur<br>2   | Co Chart Too Chart Too Design J J Frent 8 mA  | K         V1 Volts           0.05         0.05           0.02         0.05   | Server  | Chart Styles<br>M V2 Volts<br>0 003 V<br>General Styles<br>Serie<br>0 003 V<br>0 0003 V<br>0 003 V<br>0 003 V<br>0 003 V<br>0 003 V<br>0 | N /       | O<br>Ul Volts   | b         P           Q         V           V         V   | Q<br>U2 Volts<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0             | R<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V  | S<br>Temp (F)<br>41<br>41<br>41<br>41<br>41<br>41<br>41<br>41<br>41<br>41  | T<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F   | U V V<br>Temp(C) LRC<br>5 C*7A<br>5 C*7F<br>5 C*4C<br>5 C*42<br>5 C*43<br>5 C*44<br>5 C*44<br>5 C*44<br>5 C*44<br>5 C*44<br>5 C*44<br>6 C*45<br>6 C*43<br>6 C*44<br>6   |         |
| T         S           Chart         Chart           1         Ta           2         SP           3         SP           4         SP           6         SP           7         SP           9         SP           10         SP           11         SP           12         SP           13         SP           14         SP           15         SP           13         SP           14         SP           15         SP           16         SP           17         SP           13         SP           14         SP           15         SP           16         SP           17         SP           20         SP           22         SP           22         SP           22         SP           23         SP           24         SP           25         SP           26         SP           27         SP <tr tr="">          28</tr>  | A Hone Save Are Save   | Reverse of the second s   | The second sec   | *      RFS     Sensors.p     Formulas     Chart     Char | AN   | C C C C C C C C C C C C C C C C C   | H H H H H H H H H H H H H H H H H H H  | unt<br>Get Started  | Co Chart Too Chart Too Design J Frent 8 mA 8 mA 8 mA 8 mA   | K         V1 Volts           0.02         0.02           0.02         0.02           0.02         0.02   | Server           Format           L           V           V           V           V   | Control Styles     Control Styles     Control Styles     O 03 V     O 03 V     O 03 V     O 03 V   | N 1       | Geries1   | b         C           v         v   | Q<br>U2 Volts<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0             | R<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V  | S<br>Temp (F)<br>41<br>41<br>41<br>41<br>41<br>41<br>41<br>41<br>41<br>41  | T<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F<br>F   | U V V<br>Temp(C) LRC<br>5 C*7A<br>5 C*7C<br>5 C*4C<br>5 C*42<br>5 C*44<br>5 C*44<br>5 C*44<br>5 C*44<br>5 C*44<br>5 C*44<br>5 C*44<br>5 C*44<br>5 C*44<br>6 C*45<br>6 C*41<br>6 C*46<br>6 C*41<br>6 C*46<br>6 C*41<br>6 C*46<br>6 C*41<br>6 C*46<br>6 C*41<br>6 C*46<br>6 C*41<br>6 C*46<br>6 C*43<br>6 C*44<br>6 C*44<br>6 C*46<br>6 C*44<br>6 C*46<br>6 C*47<br>6 5 C*48<br>6 C5  |         |
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1603	\$PRFSA	5488	9.52 V		3.17 V	/	212	mA	36	mA	0.04 V		0.04 V		0	/		0 V	86	F	30 C	C*4C
1604	\$PRFSA	5492	9.52 V		3.17 V	/	188	mA	36	mA	0.04 V		0.04 V		0	/		0 V	86	F	30 C	2*47
1605	\$PRFSA	5495	9.53 V		3.17 V	/	192	mA	36	mA	0.04 V		0.04 V		0	/		0 V	86.8	F	30.5 (	2*47
1606	\$PRFSA	5499	9.52 V		3.17 V	/	268	mA	36	mA	0.04 V		0.04 V		0	/		0 V	86.8	F	30.5 C	C*4C
1607	\$PRFSA	5502	9.52 V		3.17 V	/	204	mA	36	mA	0.04 V		0.04 V		0	/		0 V	86	F	30 C	2*48
1608	\$PRFSA	5505	9.49 V		3.17 V	/	200	mA	36	mA	0.04 V		0.04 V		0	/		0 V	86	F	30 C	C*41
1609	\$PRFSA	5508	9.52 V		3.17 V	/	516	mA	36	mA	0.04 V		0.04 V		0	/		0 V	86	F	30 C	2*46
1610	\$PRFSA	5512	9.51 V		3.17 V	/	260	mA	36	mA	0.04 V		0.04 V		0	/		0 V	86	F	30 C	2*48
1611	\$PRFSA	5515	9.53 V		3.17 V	/	180	mA	36	mA	0.04 V		0.04 V		0	/		0 V	86.8	F	30.5 C	C*4D
1612	\$PRFSA	5519	9.52 V		3.17 V	/	192	mA	36	mA	0.04 V		0.04 V		0	/		0 V	86	F	30 C	2*4E
1613	\$PRFSA	5522	9.51 V		3.17 V	/	220	mA	36	mA	0.04 V		0.04 V		0	/		0 V	86	F	30 C	2*4F
1614	\$PRFSA	5526	9.52 V		3.17 V	/	196	mA	36	mA	0.04 V		0.04 V		0	/		0 V	86	F	30 C	2*46
1615	\$PRFSA	5529	9.51 V		3.17 V	/	236	mA	36	mA	0.04 V		0.04 V		0	/		0 V	86.8	F	30.5 C	C*4E
1616	\$PRFSA	5533	9.52 V		3.17 V	/	220	mA	36	mA	0.04 V		0.04 V		0	/		0 V	86.8	F	30.5 C	2*41
1617	\$PRFSA	5536	9.52 V		3.17 V	/	180	mA	36	mA	0.04 V		0.04 V		0	/		0 V	86	F	30 C	2*40
1618	\$PRFSA	5539	9.52 V		3.17 V	/	196	mA	36	mA	0.04 V		0.04 V		0	/		0 V	86	F	30 C	2*48
1619	\$PRFSA	5543	9.5 V		3.17 V	/	196	mA	36	mA	0.04 V		0.04 V		0	/		0 V	86	F	30 C	2*47
1620	\$PRFSA	5546	9.51 V		3.17 V	/	196	mA	36	mA	0.04 V		0.04 V		0	/		0 V	86.8	F	30.5 C	2*4E
1621	\$PRFSA	5549	9.51 V		3.17 V	/	248	mA	36	mA	0.04 V		0.04 V		0	/		0 V	86	F	30 C	2*4C
1622	\$PRFSA	5553	9.53 V		3.17 V	/	196	mA	36	mA	0.04 V		0.04 V		0	/		0 V	86.8	F	30.5 C	2*48
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1602 \$PR	FSA 548	9.52 V	3.17 V	204 mA	36 r	mA 0.04 V	0.04 \	0 V	0 V	86 F	:	30 C <sup>a</sup>	*46
1603 \$PR	FSA 548	9.52 V	3.17 V	212 mA	. 36 r	mA 0.04 V	0.04 \	( 0 V	0 V	86 F	4	30 C*	*4C
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1605 \$PR	FSA 549	9.53 V	3.17 V	192 mA	36 r	mA 0.04 V	0.04 \	/ 0 V	0 V	86.8 F	4	30.5 C*	*47
1606 \$PR	FSA 549	9.52 V	3.17 V	268 mA	36 r	nA 0.04 V	0.04 \	/ 0 V	0 V	86.8 F	÷	30.5 C*	*4C
1607 \$PR	FSA 550	9.52 V	3.17 V	204 mA	36 r	nA 0.04 V	0.04 \	0 V	0 V	86 F	2	30 C1	*48
1608 \$PR	FSA 550	9.49 V	3.17 V	200 mA	. 36 r	nA 0.04 V	0.04 \	0 V	0 V	86 F	2	30 C <sup>4</sup>	*41
1609 \$PR	FSA 550	9.52 V	3.17 V	516 mA	. 36 r	nA 0.04 V	0.04 \	0 V	0 V	86 F	2	30 C*	*46
1610 \$PR	FSA 551	9.51 V	3.17 V	260 mA	. 36 r	mA 0.04 V	0.04 \	0 V	0 V	86 F	£	30 C*	*48
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1612 \$PR	FSA 551	9.52 V	3.17 V	192 mA	36 r	nA 0.04 V	0.04 \	0 V	0 V	86 F	2	30 C1	*4E
1613 \$PR	FSA 552	9.51 V	3.17 V	220 mA	36 r	nA 0.04 V	0.04 \	0 V	0 V	86 F	-	30 C1	*4F
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