

Master Command User Sheet				
Description	Command	Syntax	Example	Detailed Description
black = opcode blue = defined user input				
d = a decimal value (.3) x = alphanumeric value y and z are temperature values spaces = spaces in this document are required spaces within the syntax syntax is not case sensitive.				
System controls				
Change Password	PWD <i>old new</i>	PWD nnnnnnnn nnnnnnnn	PWD 88888888 12341234	Change password, the old password was 88888888 (factory default) and the new password is 12341234. *Must be all numbers. Use from 4 to 8 digits.
Add Phone Number	ADPHn <i>password ph_number</i>	ADPH1 nnnnnnnn nnnnnnnn	ADPH1 88888888 8634251234	Add new phone number to phone registry location # n (1 to 4). 88888888 is the system password, 8634251234 is the cellular number of the users mobile phone.
Set Device Phone Number	DEVPH <i>dev_ph_number</i>	DEVPH 4018631234	DEVPH 4018631234	Set Device (simcard) phone number. This is the number of the Pixie or Sprite's cellular phone number. Some functions require this number.
Remove Phone Number	RMPHn <i>password</i>	RMPH1 88888888 8634251234	RMPH1 88888888 8634251234	Remove Ph Number in entry #n
Get List of Active Phone Numbers	GETPH	GETPH	GETPH	Sends list of all active phone numbers (the phone book)
Reset	DATARESET	DATARESET	DATARESET	Reset to Factory presets. Erases all custom setup and phone numbers.
Reboot	REBOOT	REBOOT	REBOOT	Soft reboot.
Disable SMS Messaging	SMDS (<i>password</i>)	SMDS nnnnnnnn	SMDS 12341234	MASTER SMS Disable (Can be used to stop message flood. Then use SMSE to reset)
Enable SMS Messaging	SMSE	SMSE	SMSE 12341234	MASTER SMS Enable
Enter Device Name	DEVNAM <i>device name</i>	DEVNAM xxxxxxxxxxxxxxxxxxxxxx	DEVNAM <i>my boat name</i>	enter device name up to 20 characers max
Clear SMS Messages	CSMS	CSMS	CSMS	Clear all SMS messages in send queue.
Turn LED On	LEDON	LEDON	LEDON	Turn on LEDs. Red = GPS, Green = GSM, steady = On, flashing = signal acquired
Turn LED Off	LEDOFF	LEDOFF	LEDOFF	Turn LED's OFF.
Send Message to All Phones	SNDALL <i>message</i>	SNDALL xxxxxxxxxxxxxxxxxxxxxx	SNDALL <i>the boat is back at the dock</i>	Sends the (<i>message</i>) to all phone numbers in the phone book.
Get Firmware Version	GVER	GVER	GVER	Get Firmware Version. ALSO gives device IMEI.
Information Acquisition				
Status Report	STATUS	STATUS	STATUS	Send Status report as STAT packet
Battery and Temp Report	INFO	INFO	INFO	Acquire Batteries and Temps.
Battery Voltage	BATA	BATA	BATA	Acquire batteries
Temperature Report	TEMPA	TEMPA	TEMPA	Acquire temps
Signal Info	GETSIG	GETSIG	GETSIG	Acquire GSM signal strenth,Number of GPS satellites
Send Report	REP <i>nnn.d//opcode,opcode</i>	REP <i>nnn.d//opcode,opcode</i>	REP 12// <i>info,status</i>	Send Opcode each nn hours. The info and status messages would be sent every 12 hours
Temperature monitoring				
Temperature Report	TEMPA	TEMPA	TEMPA	Acquire temps (Temp acquire -40F to 248 F /-40C to 120C)
Set Temperature	TEMPR <i>F//YY,ZZ</i>	TEMPR <i>F//YY,ZZ</i>	TEMPR <i>F//36,64</i>	Set Temp alarm set-points YY=Lo ZZ=high, F or C (-30C to 110C/ -30F to 230F)
High Temp Alert	TEMPR	TEMPR	TEMPR	Reset temp Logs
Enable High Temp Alert	THEP	THEP	THEP	Temp High alert enable. Then executes string.
Disable High Temp Alert	THD	THD	THD	Temp High alert Disable
Enable Low Temp Alert	TLE	TLE	TLE	Temp Low alert enable
Disable Low Temp Alert	TLD	TLD	TLD	Temp Low alert disable
Enable Normal Temp Alert	TNE	TNE	TNE	Temp Normal alert enable
Disable Normal Temp Alert	TND	TND	TND	Temp Normal alert Disable
Temp Alert Delay	TEMPDEL <i>nnnn</i>	TEMPDEL <i>nnnn</i>	TEMPDEL 600	Temp delay of up to 9999 seconds, the temperature will have to remain outside the setpoints for nnnn seconds before an alert is sent

Description	Command	Syntax	Example	Detailed Description
Change Temp Text - Low	CTXTL message	CTXTL message	CTXTL Low temperature alert!	Change text for Temperature LOW alert
Change Temp Text - Normal	CTXTN message	CTXTN message	CTXTN Temperature Normal	Change text for Temperature NORMAL alert
Change Temp Text - High	CTXTH message	CTXTH message	CTXTL High temperature alert!	Change text for Temperature HIGH alert
	//O contact Switches			
Open Switch 1	EnOE //opcode1,opcode2,...	EnOE //opcode1,opcode2,...	E2OE //f6e,wait 20,f6d	Switch 1 OPEN Enable
Close Switch 1	EnCE //opcode1,opcode2,...	EnCE //opcode1,opcode2,...	EnCE //f6d	Switch 1 CLOSE Enable
Open Switch 2	E2OD //opcode1,opcode2,...	E2OD //opcode1,opcode2,...	E2OD	Switch 2 OPEN Disable
Close Switch 2	E2CD //opcode1,opcode2,...	E2CD //opcode1,opcode2,...	E2CD	Switch 2 CLOSE Disable
	EnOD and EnCD	EnOD and EnCD	EnOD and EnCD	w/o arguments removes any previous arguments.
External Alarm Text - Open	CTXSO	CTXSO<n><space><msg>	CTXSO6 shore power lost!	Change Text message for External Alarm <n> OPEN
External Alarm Text - Closed	CTXSC	CTXSC<n><space><msg>	CTXSC6 shore power recovered	Change text message for External Alarm <n> CLOSED
	EnD tttt	EnD tttt	E2D 180	Switch # n delay tttt sec (0 to 9999 sec., 0 = 5sec)
	Setup commands			
Turn Relay On	RELnON	<i>*These override any other command state. They will also reset any active states.</i>		Allows Relay n to be turned ON/OFF. (n =1 or2).
Turn Relay Off	RELnOFF	<i>Main over-ride switch.</i>		Turns Relay n OFF.
		Note: relay disablement with a RELnOFF breaks physical access to that relay by all o/p functions.		
	OP1REM nn	OP1REM nn	OP1REM 5	Assign Relay #1 (O/P # 5) to remote user control. (Used with switches and alarms).
	OP1REMD	OP1REMD	OP1REMD	Disable Remote manual control (and switch control)
	OP1GFE	OP1GFE	OP1GFE	Assign Relay #1 (O/P # 5) to Geofence Transgression activation. Remains ON.
	OP1GFE nn	OP1GFE nn	OP1GFE nn	Assign Relay #1 to Geofence Transgression, Hold relay ON for 1 to 99 Minutes.
	OP1GFE 0	OP1GFE 0	OP1GFE 0	Assign Relay #1 to Geofence Transgression, Hold relay ON for 1 sec and OFF.
	OP1GFD	OP1GFD	OP1GFD	Disable Geofence control of Relay # 1 (O/P # 5)
	OP2REM nn	OP2REM nn	OP2REM nn	Assign Relay #2 (O/P # 6) to remote user control. Hold relay ON for nn minutes.
	OP2REMD	OP2REMD	OP2REMD	Disable Remote manual control (and switch control)
	OP2GFE	OP2GFE	OP2GFE	Assign Relay #2 (O/P # 6) to Geofence Transgression activation. Remains ON.
	OP2GFE nn	OP2GFE nn	OP2GFE nn	Assign Relay #2 to Geofence Transgression, Hold relay ON for nn minutes.
	OP2GFE 0	OP2GFE 0	OP2GFE 0	Assign Relay #2 to Geofence Transgression, Hold relay ON for 5 sec and OFF.
	OP2GFD	OP2GFD	OP2GFD	Disable Geofence control of Relay # 2 (O/P # 6)
	nn			nn holds relay on or off for nn minutes.
	Execution commands			
	WAIT nnnn	WAIT nnnn	F5E;WAIT 20:F5D	Waits nnnn seconds then executes following command in a string. This executes F5E then waits 20 secs before executing F5D.
Enable Relay 1 (orange wire)	F5E	F5E	F5E	Enable O/P #1 . This is the main relay ACTIVATION command.
Disable Relay 1 (orange wire)	F5D	F5D	F5D	Disable O/P #1. This is the main relay DE-ACTIVATION command.
Enable Relay 2 (green wire)	F6E	F6E	F6E	Enable O/P #2. This is the main relay ACTIVATION command.
Disable Relay 2 (greenn wire)	F6D	F6D	F6D	Disable O/P #2. This is the main relay DE-ACTIVATION command.
	Fast access commands			
	ENTER //opcode1,opcode2			Sets up predefined command string for ENTRY. No Passwords.
	ENTER<space><password>			Activates the ENTRY command string and requires a password.
	LEAVE //opcode1,opcode2			Sets up predefined command string for Leaving. No password.
	LEAVE<space><password>			Activates thye LEAVING command string and requires password.
	ANNEXn //opcode1,opcode2,opcode3,etc... where n = 1,2,3 . Extra opcode string when not enough space			Eg: ANNEX1 //F1E,F2E,SMSD,ANNEX2
				ANNEX2 //F1D,SMSE,ANNEX3 etc
				NB: SMSD and SMSE <u>do not</u> need passwords in ANNEX opcode argument.

Description	Command	Syntax	Example	Detailed Description
Power settings				
	CTXPL	CTXPL	CTXPL battery power lost!	Change Text for POWER LOST message
	CTXPR	CTXPR	CTXPR battery power restored	Change text for POWER RECOVERY message
	PLE //opcode1,opcode2,opcode3,etc	PLE //opcode1,opcode2,opcode3,etc	PLE	Power Loss alert enable
	PLD //opcode1,opcode2,opcode3,etc	PLD //opcode1,opcode2,opcode3,etc	PLD	Power loss alert Disable
	PGE //opcode1,opcode2,opcode3,etc	PGE //opcode1,opcode2,opcode3,etc	PGE //info	Power Good alert enable
	PGD //opcode1,opcode2,opcode3,etc	PGD //opcode1,opcode2,opcode3,etc	PGD	Power good alert disable
	PWRDEL nnn	PWRDEL nnn	PWRDEL 180	Power sense del of nnnn secs.
	EXTVOLT ON//vv.vv	EXTVOLT ON//vv.vv	EXTVOLT ON//12.20	Alarm setpoint voltage
Geo-Fence				
	SMSD (password)	SMSD nnnnnnnn	SMSD 88888888	Disable SMS messages(only SMSE and CSMS will be obeyed after this)
	SMSE	SMSE	SMSE	Enable SMS messages
	ARM	ARM	ARM	= SMSE Enable SMS Messages
	SET	SET	SET	= GFE Enable Geo-Fence
	NOSET	NOSET	NOSET	Disable Geo fence (holds GPS Rx OFF)
	OFF	OFF	OFF	= GPSD Disable GPS receiver
	GPSE	GPSE	GPSE	Enable GPS receiver
	GPSD	GPSD	GPSD	Disable GPS receiver
	GPSA	GPSA	GPSA	Acquire GPS fix
	FIX	FIX	FIX	=GPSA Acquire immediate fix
	NOFIX	NOFIX	NOFIX	= GPSD Turn GPS receiver OFF.
	GFE	GFE	GFE	Enable Geo-Fence
	GFD	GFD	GFD	Disable Geo Fence
	SET	SET	SET	= GFE Enable Geo Fence Sets GFE home base and activate geofence
	OFF	OFF	OFF	= GFD Disable geofence
	GFR ddd	GFR ddd	GFR 50	Set GeoFence Radius from HOME SET location. ddd in Metres (Min = 200m)
	GAD ddd	GAD ddd	GAD 500	Geofence Automatic Distance based reports every ddd in Metres
	GAT mmm	GAT mmm	GAT 5	Geofence automatic Time based reports every mmm minutes (Min = 5 min)
	GPLOT	GPLOT	GPLOT	Set up Googlemap plotting hyperlink
	GATRAD	GATRAD	GATRAD	Radius from last GAT report (suppresses GAT reports when asset is stopped)
	TIM mmm	TIM mmm	TIM 5	= GAT Same as GAT
	DIST ddd	DIST ddd	DIST 500	= GAD Same as GAD
	SPEED U	SPEED U	SPEED kn	Where U = KN (knots), K (Km/hr, L (Miles/hr)
Switch Assignments				
	Sw # 1:	Blue		Bilge
	Sw # 2:	Brown		Entry
	Sw # 3:	White/Black		Can be used for Countdown of operating hours (pre-configured)
	Sw # 4	Purple		Snap Sensor (pre-configured)
	Sw # 5	Yellow		Shore Power (pre-configured)
	Sw # 6	White/Brown		Spare input (not assigned)
Report				
	REP nnn.d//opcode,opcode,opcode..			Where nnn.d = time between reports (Hrs) and 1/10 hr.

Description	Command	Syntax	Example	Detailed Description
	Special commands			
	ASK (Network USSD command)	ASK	ASK *120#	Sends command locally & relays to cellphone.
	SIMBALANCE	SIMBALANCE	SIMBALANCE	Acquire Simcard balance.
	MESSA	MESSA	MESSA	Sends message count for the day, tot messages over Total days. Day starts at 00:00 local time.
	TESTDEV 99999999	TESTDEV 99999999	TESTDEV 99999999	Password fixed. Accepts the command from any phone and responds with: devnam: <phone #1> <phone #2> <phone #3> <phone #4> Sig: <1-4>; SSI: <ssi> Sat: < sats>; Fix: <fix> Bat: <bat %> Ext volts: <volts>
	Alias commands			
	FIX = POS = GPSA			
	NOFIX = NOPOS =GPSD			
	SET = GFE			
	NOSET = GFD			
	INF = INFO			
	GETPH = GETPHONE			
	ADPHn = ADDPHONE			
	RMPHn = REMOVEPHONEn			
	PWD = PASSWORD			
	STAT = STATUS			
	TIM = TIME = GAT			
	REP nn = REPORT nn			
	NOPOS = GPSD			
	TAMP = TAMPER			
	NOTAMP = NOTAMPER			
	TMPR = TEMPRESET			
	GFR = RAD (Min 200 m)			
	SIREN = REL2ON			
	NOSIREN = REL2ON			
	KILL = OP1REM;REL1ON;F5E			
	NOKILL = REL1OFF			
	REMOVEPHONEn (password)			Remove Ph Number in entry #n
	International Dialing Setup			
	('+' = dials as '00')			