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FlexRadio PowerSDR 2.x CAT Command Syntax

ZZAx Commands

ZZAC Command

ZZAC	Sets or rea	ads the	Step Si	ze (repl	aces ZZ	ZST)			
Get	ZZAC	;							
Set	ZZAC	P1	P1	;					
Answer	ZZAC	P1	P1	;					
Notes	P1 = 00	to 14.							
	00 = 1 H	łz							
	01 = 10	Hz							
	02 = 50	Hz							
	03 = 100) Hz							
	04 = 250) Hz							
	05 = 500) Hz							
	06 = 1 K	Hz							
	07 = 5 K	Hz							
	08 = 9 K	Hz							
	09 = 10	KHz							
	10 = 100) KHz							
	11 = 250) KHz							
	12 = 500) KHz							
	13 = 1 N	⁄IHz							
	14 = 10	MHz							
	If the Ste								
	If you se	end ZZA	AC03;,	the Step	Size wi	ill be set	to 100	Hz.	

ZZAD Command

ZZAD	Moves VI	O A D	own By	The So	elected S	Step					
Set	ZZAD	P1	P1	;							
Notes	ZZAC i	is write-	only								
	P1 = 00	to 14.									
	See ZZ	See ZZAC for parameter list. ZZAD does not change the Step Size.									

ZZAG Command

ZZAG	Sets or re	eads the	Audio	Gain co	ontrol			
Get	ZZAG	;						
Set	ZZAG	P1	P1	P1	;			
Answer	ZZAG	P1	P1	P1	;			
Notes	P1 = 00	00 to 100).					

ZZAI Command

ZZAI Se	ts or rea	ads the	Auto In	formati	on func	tion				
Get	ZZAI	•								
Set	ZZAI	P1	;							
Answer	ZZAI	P1	:							
Notes	P1 = 0	for Off,	1 or mo	re for C	n. Whe	n On, th	e radio	will bro	adcast th	ne
	VFO (VFO (A or B) frequency when changed. Option checkbox on the Setup/CAT								
	tab must be checked to allow this command.									

ZZAR Command

ZZAR	Sets or re	ads the	RX1 A	GC Th	reshold	control				
Get	ZZAR	;								
Set	ZZAR	P1	P1	P1	P1	;				
Answer	ZZAR	P1	P1	P1	P1	;				
Notes	P1 = -20 to +120 (Must have + or - sign).									

ZZAS Command

ZZAS S	ets or re	ads the	RX2 A	GC Thr	eshold	control				
Get	ZZAS	;								
Set	ZZAS	P1	P1	P1	P1	;				
Answer	ZZAS	P1	P1	P1	P1	;				
Notes	otes $P1 = -20 \text{ to } +120 \text{ (Must have + or - sign)}.$									

ZZAU Command

ZZAU M	oves VF	O A Up	By The	e Select	ed Step					
Set	ZZAU	P1	P1	;						
Notes	ZZAU i	is write-	only							
	P1 = 00	to 14.								
See ZZAC for parameter list. ZZAU does not change the Step Size.										

ZZBx Commands

ZZBA Command

ZZBA	Moves the	e RX2 b	and sw	itch dov	vn one	band		
Set	ZZBA	;						
Notes	ZZBA i	s write-	only					

ZZBB Command

ZZBB I	Moves the	e RX2 b	and sw	itch dov	vn one l	band		
Set	ZZBB	;						
Notes	ZZBB i	s write-	only					

ZZBD Command

ZZBD	Moves th	e RX1 b	and sw	itch dov	wn one	band		
Set	ZZBD	;						
Notes	ZZBD i	is write-	only					

ZZBG Command

ZZBG	Sets or re	eads the	Band (Group (HF/VH	F)				
Get	ZZBG	;								
Set	ZZBG	P1	;							
Answer	ZZBG	P1	;							
Notes	P1 = 0	P1 = 0 for HF, 1 for VHF.								

ZZBI Command

ZZBI Se	ets or re	ads the	Binaura	al (BIN)	status			
Get	ZZBI	;						
Set	ZZBI	P1	;					
Answer	ZZBI	P1	;					
Notes	P1 = 0	for off,	1 for on	•				

ZZBM Command

ZZBM M	loves VF	O B Do	wn By	The Sel	ected St	ер						
Set	ZZBM	P1	P1	;								
Notes	ZZBM	ZZBM is write-only										
	P1 = 00	1 = 00 to 14.										
See ZZAC for parameter list. ZZBM does not change the Step Size.												

ZZBP Command

ZZBP	Moves VI	O B U _l	By Th	ne Selec	ted Step)				
Set	ZZBP	P1	P1	;						
Notes	ZZBP i	s write-	only							
	P1 = 00) to 14.								
	See ZZ	AC for	parame	ter list.	ZZBP d	oes no	t change	the Ste	p Size.	

ZZBR Command

ZZBR S	ets or rea	ads the	BCI Re	jection	button	status				
Get	ZZBR	;								
Set	ZZBR	P1	;							
Answer	ZZBR	P1	;							
Notes	P1 = 0 for OFF, 1 for ON.									

ZZBS Command

ZZBS S	ets or re	ads the	RX1 B	and Swi	itch					
Get	ZZBS	;								
Set	ZZBS	P1	P1	P1	;					
Answer	ZZBS	P1	P1	P1	;					
Notes	2 meter	r transve	erter is in	nstalled)	, 888 (C	GEN), an	d 999 (WWV).	06, 002 VHF P /U insta	1

ZZBT Command

ZZBT Se	ets or rea	ads the	RX2 Ba	and Swi	tch					
Get	ZZBT	;								
Set	ZZBT	P1	P1	P1	;					
Answer	ZZBT	P1	P1	P1	;					
Notes	P1 valu	ues: 160	, 080, 0	60, 040,	030, 02	20, 017,	015, 012	2, 010, 0	06, 002	(when
	2 meter	transve	erter is in	nstalled)	, 888 (C	SEN), an	d 999 (V	WWV).	VHF P	1
	values:	V001 tl	nru V01	3. Retui	rns V00	(2M) an	d V01 (70cm) it	f VU ins	talled.

ZZBU Command

ZZBU	Moves the	RX1 b	and swi	itch up	one ban	d		
Set	ZZBU	;						
Notes	ZZBU i	s write-	only					

ZZBY Command

ZZBY (Closes the	consol	9				
Set	ZZBY	;					
Notes	ZZBY	is write-	only				

ZZCx Commands

ZZCB Command

ZZCB Se	ets or rea	ds the I	Break II	n Enabl	e check	box stat	tus			
Get	ZZCB	;								
Set	ZZCB	P1	;							
Answer	ZZCB	P1	;							
Notes	P1 = 0	P1 = 0 for disabled, 1 for enabled.								

ZZCD Command

ZZCD S	ets or re	ads the	Break l	In Delay	value			
Get	ZZCD	;						
Set	ZZCD	P1	P1	P1	P1	;		
Answer	ZZCD	P1	P1	P1	P1	;		
Notes	P1 = 01	50 to 50	000					

ZZCF Command

ZZCF So	ets or rea	ads the	Show T	X CW	Frequer	ncy chec	kbox st	atus			
Get	ZZCF	;									
Set	ZZCF	ZCF P1 ;									
Answer	ZZCF	P1	;								
Notes	P1 = 0	P1 = 0 for disabled, 1 for enabled.									

ZZCI Command

ZZCI Set	s or rea	ds the (CW Iam	bic che	ckbox s	tatus						
Get	ZZCI	;										
Set	ZZCI	ZCI P1 ;										
Answer	ZZCI	ZZCI P1 ;										
Notes	P1 = 0	P1 = 0 for disabled, 1 for enabled.										

ZZCL Command

ZZCL S	ets or re	ads the	CW Pit	ch (Set	up DSI	?)		
Get	ZZCL	;						
Set	ZZCL	P1	P1	P1	P1	;		
Answer	ZZCL	P1	P1	P1	P1	;		
Notes	P1 = 02	200 to 12	200.					

ZZCM Command

ZZCM S	Sets or re	ads the	CW M	onitor c	heckbo	x status				
Get	ZZCM	;								
Set	ZZCM	P1	;							
Answer	ZZCM	P1	;							
Notes	Notes $P1 = 0$ for disabled, 1 for enabled.									

ZZCP Command

ZZCP S	ZZCP Sets or reads the Compander (CMP) button status										
Get	ZZCP	;									
Set	ZZCP	P1	;								
Answer	ZZCP	P1	;								
Notes	P1 = 0	P1 = 0 for off, 1 for on.									

ZZCS Command

ZZCS Se	ts or reac	ds the C	CW Spec	ed			
Get	ZZCS	;					
Set	ZZCS	P1	P1	;			
Answer	ZZCS	P1	P1	;			
Notes	P1 = 01	to 60					

ZZCT Command

ZZCT S	ets or re	ads the	Compa	nder Th	reshold	l value				
Get	ZZCT	;								
Set	ZZCT	P1	P1	;						
Answer	ZZCT	P1	P1	;						
Notes	Notes $P1 = 00 \text{ to } 10.$									

ZZCU Command

ZZCU R	eads the	CPU U	sage						
Get	ZZCU	;							
Set									
Answer	ZZCU	P1	P1	P1	P1	P1	P1	;	
Notes	P1 = 00	0.00 to	100.00						

ZZDx Commands

ZZDA Command

ZZDA S	ets or rea	ads the	Display	Averag	ge (AVC	3) status	8		
Get	ZZDA	;							
Set	ZZDA	P1	;						
Answer	ZZDA	P1	;						
Notes	P1 = 01	for off,	l for on.						

ZZDE Command

ZZDE S	ets or rea	ads the	Enhanc	ed Sign	al Clari	ty Forn	n Enabl	e Butto	n (F5K/	RX2)
Get	ZZDE	;								
Set	ZZDE	P1	;							
Answer	ZZDE	P1	;							
Notes	P1 = 0	for off, 1	for on.							

ZZDF Command

ZZDF O	pens or	closes th	ie Enha	nced Si	gnal Cl	arity Fo	orm (F5	K/RX2	only)	
Get	ZZDF	;								
Set	ZZDF	P1	;							
Answer	ZZDF	P1	;							
Notes	P1 = 0	P1 = 0 for close 1 for open.								

ZZDM Command

ZZDM	Sets or re	ads the	Displa	y Mode			
Get	ZZDM	;					
Set	ZZDM	P1	;				
Answer	ZZDM	P1	;				
Notes	P1 value	es:					
	0 = Spec	ctrum					
	1 = Pana	adapter					
	2 = Scop	oe -					
	3 = Phas	se					
	4 = Phas	se2					
	5 = Wat	erfall					
	6 = Hist	ogram					
	7 = Pana	_					
	8 = Pana	ascope					
	9 = Off	1					

ZZDN Command

ZZDN S	ets or rea	ads the	Waterf	all Lo li	mit (Se	tup For	m)			
Get	ZZDN	;								
Set	ZZDN	P1	P2	P2	P2	;				
Answer	ZZDN	P1	P2	P2	P2	;				
Notes $P1 = + \text{ or } -, P2 = -200 \text{ to } +200.$										

ZZDO Command

ZZDN S	ZZDN Sets or reads the Waterfall Hi limit (Setup Form)											
Get	ZZDO	;										
Set	ZZDO	P1	P2	P2	P2	;						
Answer	ZZD0	P1	P2	P2	P2	;						
Notes	P1 = + or -, P2 = -200 to +200.											

ZZDP Command

ZZDP So	ets or rea	ds the	Spectru	m Grid	Maxim	num sett	ting (Set	tup For	m)			
Get	ZZDP	;										
Set	ZZDP	P1	P2	P2	P2	;						
Answer	ZZDP	P1	P2	P2	P2	;						
Notes	P1 = +	P1 = + or -, P2 = -200 to +200. Note: The Spectrum Grid Min and Max										
	controls	controls interact, you may not be able to set either to the extreme limits.										

ZZDQ Command

ZZDP S	ets or rea	ds the	Spectru	m Grid	Minim	um sett	ing (Se	tup For	m)		
Get	ZZDQ	;									
Set	ZZDQ	P1	P2	P2	P2	;					
Answer	ZZDQ	P1	P2	P2	P2	;					
Notes	P1 = + 6	P1 = + or -, P2 = -200 to +200. Note: The Spectrum Grid Min and Max									
	controls interact, you may not be able to set either to the extreme limits.										

ZZDR Command

ZZDR S	Sets or rea	ads the	Spectru	ım Grid	Step S	ize (Set	tup For	m)	
Get	ZZDR	;							
Set	ZZDR	P1	P1	;					
Answer	ZZDR	P1	P1	;					
Notes	P1 = 01	TO 40.							



ZZDU Command

ZZDU S	tatus Wo	rd												
Get	ZZDU	;												
Answer	ZZDU	P1	P2	P3	P4	P5	P6	P7	P8	P9				
	P1	P11	P12	P13	P14	P14	P15	P15	P16	P16				
	P17	P17	P18	P18	P19	P19	P19	P20	P20	P20				
	P21	P21	P21	P22	P22	P22	P23	P23	P23	P24				
	P24	P25	P25	P25	P26	P26	P26	P26	P27	P27				
	P27	P27	P28	P28	P28	P28	P28	P29	P29	P29				
	P29	P29	P30	P30	P30	P30	P30	P31	P31	P31				
		P31	P31	P32	P32		P32	P32		P32				
	P31					P32			P32					
	P32	P32	P32	P32	P33	P33	P33	P33	P33	P33				
	P33	P33	P33	P33	P33									
Notes	P values													
			TX But	ton		ZZSW								
		FO Spl:				ZZSP ZZTII								
	P3 T	UN But	ton			ZZTU								
	P4 M	OX But	ton			ZZTX								
		X1 Ante				ZZOA (Note 1) ZZOB (Note 1)								
	P6 R	X2 Ante	enna											
	P7 T	X Ante	nna				(Note 1							
	P8 R	X2 Enal	ole			ZZRS	(Note 1)						
	P9 R	IT Enal	ole			ZZRT								
	P10 D	isplay	Mode			ZZDM								
	P11 A	GC Sele	ect			ZZGT								
	P12 M	ultiRX	Enable	2		ZZMU								
	P13 X	IT Enal	ole			ZZXS								
	P14 S	tep Siz	ze			ZZAC								
	P15 R	X1 Mode	9			ZZMD ZZME (Note 1) ZZFJ (Note 1)								
	P16 R	X2 Mode	9											
	P17 R	X2 DSP	Filter											
	P18 R	X1 DSP	Filter			ZZFI								
	P19 T	X Relay	ys.			ZZOF								
	P20 R	X2 Band	i			ZZBT	(Note 1)						
	P21 D:	rive Le	evel			ZZPC								
	P22 R	X1 Band	i			ZZBS								
	P23 A	udio Ga	ain			ZZAG								
	P24 C	W Speed	d			ZZKS								
	P25 T	une Pot	ver		ZZTO									
	P26 P	rimary	DC Vol	ts		ZZRV (Note 2)								
	P27 S	-Meter	Level			ZZSM								
	P28 R	IT Fred	quency			ZZRF								
			ture Se	ensor		ZZTS	(Note 2)						
		IT Fred				ZZXF ZZCU								
		PU Usad												
			requenc	У		ZZFA								
			requenc	-		ZZFB								
	ZZDU is re	ad-only. No	ote 1: FLEX	5000 only.			LEX5000 or							
	Parameters	are colon-se	eparated. Pa	rameters no	ot applying t	to the radio	model in use	return zero	S.					

ZZDX Command

ZZDX S	ets or rea	ads the	Phone I	OX butt	on statu	IS		
Get	ZZDX	;						
Set	ZZDX	P1	;					
Answer	ZZDX	P1	;					
Notes	P1 = 01	for off, 1	l for on.					

ZZDY Command

ZZDY	Sets or re	ads the	Phone 2	DX leve	l					
Get	ZZDY	;								
Set	ZZDY	P1	P1	;						
Answer	ZZDY	P1	P1	;		;				
Notes	P1 = 0 t	P1 = 0 to 10.								

ZZEx Commands

ZZEA Command

ZZEA Se	ts or rea	ds the l	RX EQ	values						
Get	ZZEA	;								
Set	ZZEA	P1	P1	P1	P2	P2	P2	P3	P3	P3
		P4	P4	P4	P5	P5	P5	P6	P6	P6
		P7	P7	P7	P8	P8	P8	P9	P9	P9
		P10	P10	P10	P11	P11	P11	P12	P12	P12
		;								
Answer	ZZEA	P1	P1	P1	P2	P2	P2	P3	P3	P3
		P4	P4	P4	P5	P5	P5	P6	P6	P6
		P7	P7	P7	P8	P8	P8	P9	P9	P9
		P10	P10	P10	P11	P11	P11	P12	P12	P12
		;								
Notes	P1 = number of EQ bands (003 or 010); P2 = EQ preamp setting (-12 to									
	015); P3 thru P12 are the setting of each EQ band (-12 to 015). If the number of bands = 003, P6 thru P12 are all zeros.									



ZZEB Command

ZZEB Se	ts or rea	ds the	TX EQ	values									
Get	ZZEA	;											
Set	ZZEA	P1	P1	P1	P2	P2	P2	P3	P3	P3			
		P4	P4	P4	P5	P5	P5	P6	P6	P6			
		P7	P7	P7	P8	P8	P8	P9	P9	P9			
		P10	P10	P10	P11	P11	P11	P12	P12	P12			
		•											
Answer	ZZEA												
		P4	P4	P4	P5	P5	P5	P6	P6	P6			
		P7	P7	P7	P8	P8	P8	P9	P9	P9			
		P10	P10	P10	P11	P11	P11	P12	P12	P12			
		;											
Notes	P1 = nu	P1 = number of EQ bands (003 or 010); P2 = EQ preamp setting (-12 to											
	, ,	015); P3 thru P12 are the setting of each EQ band (-12 to 015). If the number of bands = 003, P6 thru P12 are all zeros.											

ZZEM Command

	nobles en	diaabla	a CAT	vouh og		220000	20					
ZZEM E		uisabie	SCAI	verbos	error	message	28		1	1		
Get	ZZEM	;										
Set	ZZEM	P1	;									
Answer	ZZEM	See	;									
		note										
Notes	P1: 0 =	OFF, 1	= ON.	Not fixe	ed lengtl	n, varies	with er	ror mess	sage:			
	Prefix I	ength E	error									
	Inactive	Comm	and									
	Unknov	vn Com	mand									
	Undefin	ned Con	mand E	rror								
	Illegal S	Suffix F	ormat									
	Suffix I	Illegal Suffix Format Suffix Length Error										
		Feature Not Available										
	Form M	lust Be	Open									

ZZER Command

ZZER Se	ts or rea	ds the	RX EQ	button	status			
Get	ZZER	;						
Set	ZZER	P1	;					
Answer	ZZER	P1	;					
Notes	P1: 0 =	OFF, 1	= ON					

ZZET Command

ZZET Se	ZZET Sets or reads the TX EQ button status										
Get	ZZET	;									
Set	ZZET	P1	;								
Answer	ZZET	P1	;								
Notes	P1: 0 =	P1: $0 = OFF, 1 = ON$									

ZZFx Commands

ZZFA Command

ZZFA Se	ts or rea	ds VFC	A freq	uency						
Get	ZZFA	;								
Set	ZZFA	P1	P1	P1	P1	P1	P1	P1	P1	P1
		P1	P1	;						
Answer	ZZFA	P1	P1	P1	P1	P1	P1	P1	P1	P1
		P1	P1	;						
Notes	P1 = fr	P1 = frequency in Hz (11 digits). Blank digits must be 0. Example:								
	14,320	14,320.150 = 00014320150.								

ZZFB Command

ZZFB Se	ts or rea	ds VFC	B freq	uency						
Get	ZZFB	;								
Set	ZZFB	P1	P1	P1	P1	P1	P1	P1	P1	P1
		P1	P1	;						
Answer	ZZFB	P1	P1	P1	P1	P1	P1	P1	P1	P1
		P1	P1	;						
Notes		P1 = frequency in Hz (11 digits). Blank digits must be 0. Example: 14,320.150 = 00014320150.								

ZZFD Command

ZZFD Set	ts or rea	ds FM l	Deviatio	n Butto	n						
Get	ZZFD	;									
Set	ZZFD	ZFD P1 ;									
Answer	ZZFD	P1	;		P1		;				
Notes	P1: 0 =	P1: 0 = 2500 Hz, 1 = 5000 Hz									

ZZFH Command

ZZFH Set	ts or rea	ds Selec	ted RX	1 DSP I	Filter H	igh					
Get	ZZFH	;									
Set	ZZFH	ZFH P1 P1 P1 P1 ;									
Answer	ZZFH	P1	P1	P1	P1	P1	;				
Notes	P1 = fr	P1 = frequency in Hz -9999 to 09999.									

ZZFI Command

ZZFI So	ets or re	ads the	current	RX1 D	SP rec	eive filte	r			
Get	ZZFI	;								
Set	ZZFI	P1	P1	;						
Answer	ZZFI	P1	P1	;						
Notes	P1 val	ues:	lsb/usb	digl/d	digu	am/sar	n/dsb	cwl/c	wu	
	00		5.0K	3.0)K	16	K	1.0)K	
	01		4.4K	2.5	5K	12	K	80	00	
	02		3.8K	2.0)K	10	K	7.	50	
	03		3.3K	1.5	5K	8.0)K	6	00	
	04		2.9K	1.0)K	6.6	5K	50	00	
	05		2.7K	8	00	5.2	2K	4	00	
	06		2.4K	6	00	4.0)K	2.	50	
	07		2.1K	3	00	3.1	lK	1	00	
	08		1.8K	1	50	2.	9K		50	
	09		1.0K		75	2.	4K		25	
	10		VAR	1 V.	AR1	VA	R1	VA	AR1	
	11		VAR	2 V.	AR2	VA	R2	VA	AR2	
									omize yo	our

ZZFJ Command

Answer Z Notes F	ZZFJ	P1	P1						
Notes F	ZZFJ		* *	;					
		P1	P1	;					
	P1 valu	ies:	lsb/usb	digl/	digu	am/sam	ı/dsb	cwl/c	cwu
0	00		5.0K	3.0)K	16	K	1.0	K
0)1		4.4K	2.5	5K	12	K	80	0
0)2		3.8K	2.0)K	10	K	75	0
0)3		3.3K	1.5	δK	8.0	K	60	0
0)4		2.9K	1.0)K	6.6	K	50	0
0)5		2.7K	8	00	5.2	K	40	0
0)6		2.4K	6	00	4.0	K	25	0
0)7		*	*		*		*	
0)8		*	*		*		*	
0)9		*	*		*		*	
1	10		VAR	1 VA	AR1	VA	R1	VA	.R1
1	11		VAR	2 VA	AR2	VA	R2	VA	R2

ZZFL Command

ZZFL Set	ZZFL Sets or reads Selected RX1 DSP Filter Low												
Get	ZZFL	;											
Set	ZZFL	P1	P1	P1	P1	P1	;						
Answer	ZZFL	P1	P1	P1	P1	P1	;						
Notes	Notes P1 = frequency in Hz -9999 to 09999.												

ZZFM Command

ZZFM Re	eads the	FlexRa	dio Mod	lel Num	ber					
Get	ZZFM	;								
Set										
Answer	ZZFM	P1	;							
Notes	Read or FLEX1:	-	0 = SD	PR1000,	1 = FLI	EX5000.	2 = FL	EX3000	, 3 =	

ZZFR Command

ZZFR Set	s or reac	ds Selec	ted RX	2 DSP I	ilter Lo)W					
Get	ZZFR	;									
Set	ZZFR	ZFR P1 P1 P1 P1 ;									
Answer	ZZFR	P1	P1	P1	P1	P1	;				
Notes	P1 = frequency in Hz -9999 to 09999.										

ZZFS Command

ZZFS Set	s or reac	ls Select	ted RX2	2 DSP F	ilter Lo	w					
Get	ZZFS	;									
Set	ZZFS	ZFS P1 P1 P1 P1 ;									
Answer	ZZFS	P1	P1	P1	P1	P1	;				
Notes	P1 = fr	P1 = frequency in Hz -9999 to 09999.									

ZZFV Command

ZZFV Re	ads singl	e data l	yte Fle	xWire (data								
Get	ZZFV	P1	P1	P2	P2	;							
	Write o	nly.											
	P1 = 00	P1 = 00 - FF, address											
	P2 = 00	− FF, d	ata										
	Case in	sensitive	e. Addre	ess is re	turned v	vith dat	a: ZZFV	⁷ 95: retu	urns				
	ZZFV9	5xx who	ere xx is	the dat	a.								

ZZFW Command

ZZFW Re	eads dou	ble data	byte F	lexWire	data									
Get	ZZFW													
Notes	Write of	Vrite only.												
	P1 = 00	1 = 00 - FF, address												
	P2 = 00	$r^2 = 00 - FF$, data byte 1												
	P3 = 00	-FF, d	ata byte	2										
	Case ins	sensitive	e. Addre	ess is ret	urned w	ith data	: ZZFW	95 retu	rns					
	ZZFW9	5xxxx;	where x	xxx is t	he data.									

ZZFX Command

ZZFX Ser	nds singl	e data b	yte Fle	xWire o	comma	nd								
Set	ZZFX	P1	P1	P2	P2	;								
	Write o	Write only.												
	P1 = 00	P1 = 00 - FF, address												
	P2 = 00	P1 = 00 - FF, address P2 = 00 - FF, data												
	Case in	sensitiv	e											

ZZFY Command

ZZFY Ser	nds doub	le data	byte Flo	exWire	comma	and								
Set	ZZFY													
Notes	Write o	Write only.												
	P1 = 00	P1 = 00 - FF, address												
	P2 = 00	P2 = 00 - FF, data byte 1												
	P3 = 00	P2 = 00 - FF, data byte 1 P3 = 00 - FF, data byte 2												
	Case in	sensitiv	e											

ZZGx Commands

ZZGE Command

ZZGE S	ZZGE Sets or reads the Noise Gate Enable button status										
Get	ZZGE	;									
Set	ZZGE	ZGE P1 ;									
Answer	ZZGE	ZGE P1 ;									
Notes	Notes $P1 = 0$ for disabled, 1 for enabled.										

ZZGL Command

ZZGL S	ZZGL Sets or reads the Noise Gate Threshold value										
Get	ZZGL	;									
Set	ZZGL	P1	P1	P1	P1	;					
Answer	ZZGL	P1	P1	P1	P1	;					
Notes $P1 = -160$ to 0 (- sign required except for 0000).											

ZZGT Command

ZZGT S	Sets or re	eads the	AGC t	humbw	heel cor	itrol		
Get	ZZGT	;						
Set	ZZGT	P1	;					
Answer	ZZGT	P1	;					
Notes	P1 valu							
	0 = Fixe	ed						
	1 = Lor	ng						
	2 = Slo	W						
	3 = Me	d						
	4 = Fas	t						
	5 = Cus	stom						

ZZHx Commands

ZZHA Command

ZZHA S	ets or re	ads Auc	lio Buff	er Size						
Get	ZZHA	;								
Set	ZZHA	P1	;							
Answer	ZZHA	P1	;							
Notes	Notes P1: 0 = 256, 1 = 512, 2 = 1024, 3 = 2048, 4 = 4096									

ZZHR Command

ZZHR Se	ets or rea	ZZHR Sets or reads DSP RX Buffer Phone Size										
Get	ZZHR	•										
Set	ZZHR	ZHR P1 ;										
Answer	ZZHR	ZHR P1 ;										
Notes	P1: 0 = 256, 1 = 512, 2 = 1024, 3 = 2048, 4 = 4096											

ZZHT Command

ZZHT Se	ets or rea	ds DSP	TX Bu	ffer Pho	one Size	!						
Get	ZZHT	;										
Set	ZZHT	CHT P1 ;										
Answer	ZZHT	ZHT P1 ;										
Notes	P1: 0 = 256, 1 = 512, 2 = 1024, 3 = 2048, 4 = 4096											

ZZHU Command

ZZHU Se	ZZHU Sets or reads DSP RX Buffer CW Size											
Get	ZZHU	;										
Set	ZZHU	ZHU P1 ;										
Answer	ZZHU	P1	;									
Notes	Notes P1: 0 = 256, 1 = 512, 2 = 1024, 3 = 2048, 4 = 4096											

ZZHV Command

ZZHV Sets or reads DSP TX Buffer CW Size										
Get	ZZHV	;								
Set	ZZHV	P1	;							
Answer	ZZHV	P1	;							
Notes	P1: 0 = 256, 1 = 512, 2 = 1024, 3 = 2048, 4 = 4096									



ZZHW Command

ZZHW S	ets or rea	ds DSF	TX Bu	ffer Dig	gital Siz	e					
Get	ZZHW	;									
Set	ZZHW	ZHW P1 ;									
Answer	ZZHW	P1	;								
Notes P1: 0 = 256, 1 = 512, 2 = 1024, 3 = 2048, 4 = 4096											

ZZHX Command

ZZHX Se	ZZHX Sets or reads DSP TX Buffer Digital Size										
Get	ZZHX	;									
Set	ZZHX	CHX P1 ;									
Answer	ZZHX	ZHX P1 ;									
Notes	tes P1: $0 = 256$, $1 = 512$, $2 = 1024$, $3 = 2048$, $4 = 4096$										

ZZIx Commands

ZZID Command

ZZID S	ZZID Sets the transceiver identification to FlexRadio									
Get										
Set	ZZID	;								
Answer										
Notes	Notes ZZID is used to remotely force the transceiver id to 900 FlexRadio).									

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ZZIF Command

ZZIF R	eads the	FlexRa	idio stat	tus						
Get	ZZIF	;								
Set										
Answer	ZZIF	P1	P1	P1	P1	P1	P1	P1	P1	P1
	P1	P1	P2	P2	P2	P2	P3	P3	P3	P3
	P3	P3	P4	P5	P6	P7	P7	P8	P9	P9
	P10	P11	P12	P13	P14	P14	P15	;		
Notes	P1 (11	characte	ers) VF0	A freq	uency ir	Hz. Sa	ame as F	FA;	•	
	P2 (4 c	characte	rs) Frequ	iency ste	ep size e	xpresse	d in pow	ers of 1	0 (see Z	ZST).
	P3 (6 c	characte	rs) RIT/	XIT freq	uency (+nnnnn	or –nnn	nn).		
	P4 (1 c	characte	r) RIT st	atus. 0	= off, 1 =	= on.				
	P5 (1 c	characte	r) XIT st	tatus. 0	= off, 1	= on.				
	P6 (1 c	characte	r) Chanr	el bank	number	. Not us	sed, defa	ulted to	0.	
	`	characte	*				,			
	P8 (1 c	characte	r) MOX	button s	status. 0	= off, 1	= on $(tr$	ansmitt	ing).	
	,	characte		_				_		
	P10 (1	characte	er) VFO	Split st	atus. Sa	me as F	R (alwa	ys 0).		
	P11 (1	characte	er) Scan	status.	Not imp	lemente	d, defau	lted to ().	
	1	characte								
	`	characte	,							
	`	characte							00.	
	P15 (1	characte	er) Shift	status.	Not use	d, defau	lted to 0			

ZZIO Command

ZZIO R	ZZIO Reads the installed options												
Get	ZZIO	;											
Answer	ZZIS	ZZIS P1 P2 P3 ;											
Notes	P1,2,3	P1,2,3 1 = installed, 0 = not available											
	P1 = ATU, P2 = RX2, P3 = VU												

ZZIS Command

ZZIS Se	ZZIS Sets or reads the variable filter width slider												
Get	ZZIS	;											
Set	ZZIS	ZIS P1 P1 P1 P1 ;											
Answer	ZZIS	P1	P1	P1	P1	P1	;						
Notes	P1 = 0	P1 = 00000 to 10000.											



ZZIT Command

ZZIT So	ZZIT Sets or reads the variable filter shift slider												
Get	ZZIT	;											
Set	ZZIT	ZZIT P1 P2 P2 P2 ;											
Answer	ZZIT	P1	P2	P2	P2	P2	;						
Notes	P1 = "	P1 = "+" or "-"											
	P2 = 0000 to 1000 (-1000 to +1000)												

ZZIU Command

ZZIU R	ZZIU Resets the variable filter shift slider											
Get												
Set	ZZIU	ZIU ;										
Answer												
Notes	Write	Write only										

ZZKx Commands

ZZKM Command

ZZKM												
Set	ZZKM	P1	;									
Notes	P1 = 1 t	o 9. ZZ	ZKM is v	vrite onl	y							

ZZKV Command (add: PowerSDR ke9ns v2.8.0.267)

ZZKV	Sends "Voice Keyer" Macros 3-6 (Reply, CQCQ, VK1, VK2) in phone											
	Sends "CWX" macros 3-6 (CWX 3, CWX 4, CWX 5, CWX 6) in CW mode											
Set	ZZKV P1 ;											
Notes	P1 = 1 to 10. ZZKV is write only											
	P1 = 3 to 6: play macros (either Voice keyer or CWX)											
	P1=4: Macro 4 will auto repeat if the repeat timer > 0.0 seconds											
	Send command a 2 nd time or key radio to Stop immediately											
	P1=7: Send FM 1750 repeater tone (FM mode only)											
	P1=8: Toggle Enable Quindar Tones											
	P1=9: Move panafall separation UP											
	P1=10: Move panafall separation down											

ZZKO Command

ZZKO Opens or closes the CWX form												
Get	ZZKO	;										
Set	ZZKO	ZKO P1 ;										
Answer	ZZKO	ZKO P1 ;										
Notes	P1 : O ₁	P1: Open = 1, Close = 0										

ZZKS Command

ZZKS S	ZZKS Sets or reads the CWX CW speed												
Get	ZZKS	;											
Set	ZZKS	ZKS P1 P1 P1 ;											
Answer	ZZKS	ZZKS P1 P1 P1 ;											
Notes	P1 = 001 to 099 in WPM.												

ZZKY Command

ZZKY	ZZKY Sends text to CWX for conversion to Morse													
Get	ZZKY	;												
Set	ZZKY	P1	P2	P2	P2	P2	P2	P2	P2	P2				
	P2	P2	P2	P2	P2	P2	P2	P2	P2	P2				
	P2													
Answer	ZZKY	ZZKY P1 ;												
Notes	Get: P1	0 = Ch	aracter 1	ouffer av	vailable,	1 = Cha	aracter b	ouffer no	ot availa	ble				
	(>72 characters left in buffer), $2 = buffer$ is empty and all code has been sent.													
	Set: P1 = space, P2 up to 24 ASCII printing characters Empty character													
	positions in P2 must contain a space.													

ZZLx Commands

ZZLA Command

ZZLA Sets or reads the RX0 (main receiver) Gain (MultiRX Group Controls)												
Get	ZZLA	;										
Set	ZZLA	P1	P1	P1	;							
Answer	ZZLA	ZZLA P1 P1 P1 ;										
Notes	P1 = 00	P1 = 000 to 100.										

ZZLB Command

ZZLB Sets or reads the RX0 Stereo Balance (MultiRX Group Controls)												
Get	ZZLB	;										
Set	ZZLB	P1	P1	P1	;							
Answer	ZZLB	ZLB P1 P1 P1 ;										
Notes	P1 = 00	P1 = 000 to 100 (50 = center).										

ZZLC Command

ZZLC Sets or reads the RX1 (subreceiver) Gain (MultiRX Group Controls)												
Get	ZZLC	;										
Set	ZZLC	P1	P1	P1	;							
Answer	ZZLC	P1	P1	P1	;							
Notes	P1 = 00	P1 = 000 to 100.										

ZZLD Command

ZZLD S	ZZLD Sets or reads the RX1 Stereo Balance (MultiRX Group Controls)											
Get	ZZLD	;										
Set	ZZLD	P1	P1	P1	;							
Answer	ZZLD	P1	P1	P1	;							
Notes	Notes $P1 = 000 \text{ to } 100 \text{ (50 = center)}.$											

ZZLE Command

ZZLE So												
Get	ZZLE	;										
Set	ZZLE	P1	P1	P1	;							
Answer	ZZLE	P1	P1	P1	;							
Notes	P1 = 000 to 100 (50 = center).											

ZZLF Command

ZZLF So	ets or rea	ads the	RX2 Sto	ereo Bal	lance				
Get	ZZLF	;							
Set	ZZLF	P1	P1	P1	;				
Answer	ZZLF	P1	P1	P1	;				
Notes $P1 = 000 \text{ to } 100 \text{ (50 = center)}.$									

ZZLG Command

ZZLG Se	ZZLG Sets or reads the AutoMuteRX1onVFOBTX checkbox (F5K Only)											
Get	ZZLG	;										
Set	ZZLG	P1	;									
Answer	ZZLG	P1	;									
Notes	P1: 0 =	OFF, 1	= ON									

ZZLH Command

ZZLH Se	ZZLH Sets or reads the AutoMuteRX2onVFOATX checkbox (F5K Only)											
Get	ZZLH	;										
Set	ZZLH	P1	;									
Answer	ZZLH	P1	;									
Notes	P1: 0 =	OFF, 1	= ON									

ZZMx Commands

ZZMA Command

ZZMA	Sets or re	ads the	RX1 M	Iute (M	UT) sta	tus				
Get	ZZMA	;								
Set	ZZMA	P1	;							
Answer	ZZMA	P1	;							
Notes	P1 = 0 for off, 1 for on. See ZZMB notes.									

ZZMB Command

ZZMB	Sets or re	ets or reads the RX2 Mute (MUT) status (FLEX5000/RX2 ONLY)											
Get	ZZMB	;											
Set	ZZMB	P1	;										
Answer	ZZMB	ZMB P1 ;											
Notes	P1 = 0 f	P1 = 0 for off, 1 for on. Note: When RX1 is muted, either with ZZMA or											
	the MU	the MUT button, both RX1 and RX2 are muted. Under the current code											
	version,	version, you cannot mute RX1 and have RX2 audio output.											

ZZMD Command

ZZMD	Sets or re	eads the	e RX1	Operati	ng Mod	e		
Get	ZZMD	;						
Set	ZZMD	P1	P1	;				
Answer	ZZMD	P1	P1	;				
Notes	P1 value	es:						
	00 = LS	В						
	01 = US	$^{\mathrm{B}}$						
	02 = DS	$^{\mathrm{B}}$						
	03 = CV	VL						
	04 = CV	VU						
	05 = FM	1						
	06 = AN	Л						
	07 = DIc	GU						
	08 = SP	EC						
	09 = DI0							
	10 = SA							
	11 = DR	RM						

ZZME Command

ZZME	Sets or re	ads the	e RX2 (Operati	ng Mod	e		
Get	ZZME	;						
Set	ZZME	P1	P1	;				
Answer	ZZME	P1	P1	;				
Notes	P1 value	es:						
	00 = LS	В						
	01 = US	$^{\mathrm{B}}$						
	02 = DS	$^{\mathrm{B}}$						
	03 = CV	VL						
	04 = CV	VU						
	05 = FN	1						
	06 = AN	Л						
	07 = DI	GU						
	08 = SP	EC						
	09 = DI							
	10 = SA	M						
	11 = DF	RM						

ZZMG Command

ZZMG	Sets or re	eads the	Mic ga	ain				
Get	ZZMG	;						
Set	ZZMG	P1	P1	P1	;			
Answer	ZZMG	P1	P1	P1	;			
Notes	P1 = 00	0 to 070)					

ZZML Command

ZZML	Returns 1	the list o	of DSP	Modes a	and Ind	exes						
Get	ZZML	;										
Answer	ZZML	P1	P1	P1	P1	P2	P2	P3				
		P1	P1	P2	P1	P2	P2	P3				
		P1	P1	P1	P1	P2	P2	P3				
		P1	P1	P1	P1	P2	P2	P3				
		P1	P1	P1	P1	P2	P2	P3				
		P1	P1	P1	P1	P2	P2	P3				
		P1	P1	P1	P1	P2	P2	P3				
		P1	P1	P1	P1	P2	P2	P3				
		P1	P1	P1	P1	P2	P2	P3				
		P1	P1	P1	P1	P2	P2	P3				
		P1	P1	P1	P1	P2	P2	P3				
		P1	P1	P1	P1	P2	P2	P3	;			
Notes	P1 = right justified mode name; P2 = mode index(00 to 12), P3 = colon as a separator. Example: ZZML LSB00: USB01::DIGL09:etc.											

ZZMN Command

ZZMN	Reads the	DSP Fi	lter naı	mes and	values					
Get	ZZMN	P1	P1	;						
Answer	ZZMN	See								
		below								
Notes	P1 Valu	es: The	two-dig	git mode	code (S	See ZZN	(ID)	•		
	represer the mod subgrou high filt	nting all the request ps of fiver value, $50-160$ ers.	the nam ted. Th e charac and 11	es and he 15 chacters: 1-15 is the	nigh/lownracter gotons.5 are is ne low fi	values groups a name of ilter valu	for each re broke f the filtoue. Exam	n filter con down er button mple:	ontained into n, 6-10 i	d in

ZZMO Command

ZZMO S	ZZMO Sets or reads the Monitor (MON) status											
Get	ZZMO	;										
Set	ZZMO	ZMO P1 ;										
Answer	ZZMO	P1	;									
Notes		P1: 0 = OFF, 1=MONpr (hear audio coming into radio),										
	P1: 2= MONps (Flex-3000/5000 only hear what is sent to transmitter).											

ZZMR Command

ZZMR	ZZMR Sets or reads the RX Meter mode												
Get	ZZMR	;											
Set	ZZMR	P1	;										
Answer	ZZMR	P1	;										
Notes	P1 Valu	P1 Values:											
	0 = Sign	0 = Signal Strength											
	1 = Sign	1 = Signal Average											
	2 = AD	2 = ADC L											
	3 = AD0	C R											
	4 = Off												

ZZMS Command

ZZMS Se	ZZMS Sets or reads the MultiRX Swap checkbox											
Get	ZZMS	;										
Set	ZZMS	MS P1 ;										
Answer	ZZMS	P1	;									
Notes	P1: 0 =	P1: 0 = OFF, 1 = ON										

ZZMT Command

ZZMT	Sets or re	eads th	e TX M	eter m	ode								
Get	ZZMT	;											
Set	ZZMT	P1	P1	;									
Answer	ZZMT	P1	P1	;									
Notes	P1 Valu	es:											
	00 = Fo	rward I	Power										
	01 = Re	1 = Reverse Power											
	02 = Mi	02 = Mic											
	03 = EQ	03 = FQ											
	04 = Le	03 = LQ 04 = Leveler											
	05 = Le	v Gain											
	06 = CC	OMP											
	07 = CF	PDR											
	08 = AI	LC.											
	09 = AI	C CO	MР										
	10 = SV	VR											
	11 = Of	f											

ZZMU Command

ZZMU S	ZZMU Sets or reads the MultiRX button status											
Get	ZZMU	;										
Set	ZZMU	ZMU P1 ;										
Answer	ZZMU	P1	;									
Notes	P1: 0 =	P1: $0 = OFF, 1 = ON$										

ZZMV Command

ZZMV G	ZZMV Gets the count of memory channels programmed											
Get	ZZMV	ZZMV ;										
Notes	Notes P1: 001 to 999; Read Only. See ZZMY for numbering scheme.											

ZZMWCommand

ZZMW Deletes a memory channel by channel number										
Set	ZZMW	P1	P1	P1	;					
Notes	P1: 001 numberi			Only. N	lo warni	ng is gi	ven. Se	e ZZMY	for	

ZZMX Command

ZZMX Restores a memory channel by channel number										
Set	ZZMX	P1	P1	P1	;					
Notes	Notes P1: 001 to 999; Write Only. See ZZMY for numbering scheme.									

ZZMY Command

ZZMY Stores radio memory configuration to a new channel												
Set	ZZMY ;											
Notes	Write Only. Memory channel numbers are assigned sequentially from 001 to											
	999. Channel numbers are stored in the Comments cell as a three digit											
	number followed by a colon, e.g. 003:. The user may add any text after the											
	colon as comments. A deleted channel number is not reused unless it is the											
	highest number assigned.											

ZZMZ Command

ZZMZ St	ZZMZ Stores radio memory configuration to an existing channel											
Set	ZZMZ	P1	P1	P1	;							
Notes	P1: 001 recall a the same	memory	channe	l, chang	e some	paramet	ers, and	save th	e chang	es to		
	without	warnin	ıg.									

ZZNx Commands

ZZNA Command

ZZNA Sets or reads the Noise Blanker (NB) status											
Get	ZZNA	;									
Set	ZZNA	P1	;								
Answer	ZZNA	P1	;								
Notes	P1 = 0	P1 = 0 for off, 1 for on.									

ZZNB Command

ZZNB	Sets or reads the Noise Blanker 2 (NB2) status										
Get	ZZNB	;									
Set	ZZNB	NB P1 ;									
Answer	ZZNB	P1	;								
Notes	P1 = 0	P1 = 0 for off, 1 for on.									

ZZNC Command

ZZNC S	ets or rea	ads RX	2 Noise	Blanke	r (1) (F5	K/RX2	only)			
Get	ZZNC	;								
Set	ZZNC	P1	;							
Answer	ZZNC	P1	;							
Notes	P1 = 0 for off, 1 for on.									

ZZND Command

ZZND S	ets or rea	ads RX	2 Noise	Blanke	r (2) (F5	K/RX2	only)		
Get	ZZND	;							
Set	ZZND	P1	;						
Answer	ZZND	P1	;						
Notes	P1 = 0 1	for off,	l for on.						

ZZNL Command

ZZNL S	ets or re	ads the	Noise B	lanker	1 thresh	old (Se	tup DSl	P tab)		
Get	ZZNL	;								
Set	ZZNL	P1	P1	P1	;					
Answer	ZZNL	P1	P1	P1	;					
Notes	Notes $P1 = 001 \text{ to } 200.$									

ZZNM Command

ZZNM	Sets or re	ads the	Noise B	lanker	2 thresl	hold				
Get	ZZNM	;								
Set	ZZNM	P1	P1	P1	P1	;				
Answer	ZZNM	P1	P1	P1	P1	;				
Notes $P1 = 0001 \text{ to } 1000.$										

ZZNR Command

ZZNR S	ets or rea	ads the	Noise R	Reductio	n (NR)	status		
Get	ZZNR	;						
Set	ZZNR	P1	;					
Answer	ZZNR	P1	;					
Notes	P1 = 0	for off,	l for on.					

ZZNT Command

ZZNT	Sets or re	ads the	Auto N	otch Fi	lter (AN	IF) stati	us			
Get	ZZNT	;								
Set	ZZNT	P1	;							
Answer	ZZNT	P1	;							
Notes	\mathbf{s} P1 = 0 for off, 1 for on.									

ZZOx Commands

ZZOA Command

ZZOA	Sets or re	ads the	antenn	a conne	ected to	RX1 (F	LEX50	00/FLE	X1500 d	only)	
Get	ZZOA	;									
Set	ZZOA	P1	;								
Answer	ZZOA	P1	;								
Notes	P1 Valu	P1 Values F5K: $0 = N/C$, $1 = Ant1$, $2 = Ant2$, $3 = Ant3$, $4 = RX1$ In.									
	P1 Valu	P1 Values F1500: $0 = PA$, $1 = XVTX_COM$, $2 = XVRX$.									

ZZOB Command

ZZOB S	ets or re	ads the	antenna	a conne	cted to 1	RX2 (Fl	LEX500	0 only)				
Get	ZZOB	;										
Set	ZZOB	ZOB P1 ;										
Answer	ZZ0B	P1	;									
Notes	P1 Valu	P1 Values: $0 = N/C$, $1 = Ant1$, $5 = RX2In$, $6 = RX1Tap$										

ZZOC Command

ZZOC	Sets or re	eads the	transm	itter an	tenna (FLEX5	000/FL	EX1500	only)		
Get	ZZOC	;									
Set	ZZOC	P1	;								
Answer	ZZ0C	P1	;								
Notes	P1 Valu	P1 Values F5K: $1 = Ant1$, $2 = Ant2$, $3 = Ant3$.									
	P1 Values F1500: $1 = PA$, $2 = XVTX/COM$.										

ZZOD Command

ZZOD	Sets or re	ads the	curren	t anteni	na mode	e (FLEX	K5000/F	1500 or	nly)			
Get	ZZOD	2202 ,										
Set	ZZOD	ZOD P1 ;										
Answer	ZZ0D	P1	;									
Notes	Notes P1 Values: 0 = Simple, 1 = Complex											

ZZOE Command

ZZOE	Sets or re	eads the	RX1 lo	op (FL)	EX5000	only)						
Get	ZZOE	;										
Set	ZZOE	ZOE P1 ;										
Answer	ZZ0E	P1	;									
Notes P1 Values: 0 = Loop Disabled, 1 = Loop Enabled												

ZZOF Command

ZZOF S	ets or rea	ads the	TX rela	ys ener	gized or	n transn	nit (FL	EX5000	/F1500	only)			
Get	ZZOF	;											
Set	ZZOF	P1	P2	P3	;								
Answer	ZZ0F	ZZ0F P1 P2 P3 ;											
Notes	Disable and TX F1500 I	d, all po 2 disabl P1: Flex	ositions in ed. ZZC	must be DF111 = FT Out	represer all ena	nted: ZZ bled, ZZ	ZOF010 ZOF000 = enable	= TX2 (= all dis	enabled, sabled.	TX1			

ZZOG Command

ZZOG S	Sets or rea	ads the	TX rela	y delay	s enabl	ed on tr	ansmit	(FLEX:	5000/F1	500
only)										
Get	ZZOG	;								
Set	ZZOG	P1	P2	P3	;					
Answer	ZZ0G	P1	P2	P3	;					
Notes	F5K P1 position disabled F1500 I must be	ns must l d. ZZOO P1: Flex	oe repres G111 = 3 Wire P1	sented: all enab	ZZOG0 led, ZZ0 Delay 0	10 = TX DG000 = = disabl	K2 enablall disaed, 1 = 6	ed, TX1 abled. enabled.	and TX	

ZZOH Command

ZZOH S	ets or re	ads the	TX rela	y delay	times (FLEX5	000/F15	500 only	7)	
Get	ZZOH	P1	;							
Set	ZZOH	P1	P2	P2	P2	P2	;			
Answer	ZZ0H	P1	P2	P2	P2	P2	;			
Notes	F5K P1	= TX re	elay nun	nber, P2	2 = delay	y in mill	isecond	s. Exan	nple:	
	ZZOH20100 Sets relay 2 to 100 ms. Delay range must be 0000 to 9999.									
	F1500 I	P1 = 1, I	22 same	as F5K.						

ZZOJ Command

ZZOJ	Sets or re	ads the	Antenn	a Lock	Checkb	ox (FL	EX5000	/F1500	Only)	
Get	ZZOJ	;								
Set	ZZOJ	P1	;							
Answer	ZZOJ	P1	;							
Notes	P1 = 0	for off,	1 for on.							

ZZOS Commands

ZZOS S	ets or rea	ads the	FM Off	set Dire	ction			
Get	ZZOS	;						
Set	ZZOS	P1	;					
Answer	ZZ0S	P1	;					
Notes	P1: 0 =	Simple	x, 1 = H	Iigh, 2 =	Low			

ZZOT Commands

ZZOT Se	ets or rea	ds the l	FM Rep	eater O	ffset Fr	equenc	y					
Get	ZZOT	;										
Set	ZZOT	P1	P1	P1	P1	P1	P1	P1	P1	P1;		
Answer	ZZ0T	ZOT P1 P1 P1 P1 P1 P1 P1 P1;										
Notes	P1 = 00	P1 = 000000000 to 999999999 Hz. 001000000 = 1.0 MHz, 000600000 =										
	600 KHz. Must have leading zeros.											

ZZOL Commands

ZZOL S	ets or rea	ads the	DigL C	lick Tu	ne Offse	et				
Get	ZZOL	;								
Set	ZZOL	P1	P1	P1	P1	;				
Answer	ZZ0L	P1	P1	P1	P1	;				
Notes	P1 = 00	P1 = 0000 to 9999								

ZZOU Command

ZZOU S	ets or rea	ads the	DigU C	lick Tu	ne Offse	et				
Get	ZZOU	;								
Set	ZZOU	P1	P1	P1	P1	;				
Answer	ZZ0U	P1	P1	P1	P1	;				
Notes	P1 = 00	P1 = 0000 to 9999								

ZZOV Command

ZZOV S	ets or rea	ads ATI	J Enab l	le Butto	n (whei	n ATU e	equippe	d)		
Get	ZZOV	;								
Set	ZZOV	P1	;							
Answer	ZZ0V	P1	;							
Notes	P1: 0=				a "1" to	ZZOV i	s the sar	ne as se	nding a	"0" to
	ZZOW	(ATU b	ypass).							

ZZOW Command

ZZOW	Sets or re	ads Al	TU Bypa	ass Butte	on (whe	n ATU	equippe	ed)			
Get	ZZOW	;									
Set	ZZOW	P1	;								
Answer	ZZOW	P1	;								
Notes	P1: 0=	P1: $0 = Off$, $1 = On$. Sending a "0" to ZZOW is the same as sending a "1" to									
	ZZOV (ZZOV (ATU Enabled and will cause the ATU to tune).									

ZZPx Commands

ZZPA Command

ZZPA Se	ets or rea	ads the	Preamp	lifier (F	Preamp)	setting				
Get	ZZPA	;								
Set	ZZPA	P1	;							
Answer	ZZPA	P1	;							
Notes	P1 valu	es;								
	SDR-10	000	FLEX	5000x	FL	EX3000]	FLEX150	00	
	0 = Off		0 =	Off	(O = Attn		0 = -10		
	1 = Lov	V	1 =	On		1 = Off		1 = 0		
	2 = Me	d			4	2 = Pre 1	[1]	2 = +10		
	3 = Hig	h			3	3 = Pre2	2[1]	3 = +20)	
								4 = +30		
	[1] If T	RX boa	rd less tl	han Rev	G, both	Pre1 an	d Pre2	available	e above	2
	MHz, n	[1] If TRX board less than Rev G, both Pre1 and Pre2 available above 2 MHz, neither available below 2 MHz. If TRX board Rev G or higher,								
	neither	availabl	e below	7 MHZ	, Pre1 a	vailable	above	7 MHz b	ut below	v 13
	MHz, a	nd both	availab	le above	13 MH	Z.				

ZZPB Command

ZZPB Se	ts or rea	ds RX2	Pream	status	(F5K/R	RX2 only	y)			
Get	ZZPB	;								
Set	ZZPB	P1	;							
Answer	ZZPB	P1	;							
Notes	P1 = 0	P1 = 0 for off, 1 for on.								

ZZPC Command

ZZPC S	ets or rea	ads the	PA Driv	ve level				
Get	ZZPC	;						
Set	ZZPC	P1	P1	P1	;			
Answer	ZZPC	P1	P1	P1	;			
Notes	P1 = 00	00 to 100)					·

ZZPD Command

ZZPD S	ets the D	isplay P	an Cen	ter butt	on			
Set	ZZPD	•						
Notes	Write-o	nly						·

ZZPE Command

ZZPE So	ZZPE Sets or reads the Display Pan Position										
Get	ZZPE	;									
Set	ZZPE	P1	P1	P1	P1	;					
Answer	ZZPE	P1	P1	P1	P1	;					
Notes	P1 = 0000 to 1000										

ZZPO Command

ZZPO S	ZZPO Sets or reads the Display Peak button											
Get	ZZPO	;										
Set	ZZPO	ZPO P1 ;										
Answer	ZZPO	P1	;									
Notes	P1 = 0	P1 = 0 for Off, 1 for On										

ZZPS Command

ZZPS Se	ets or rea	ds the S	Start bu	tton			
Get	ZZPS	;					
Set	ZZPS	P1	;				
Answer	ZZPS	P1	;				
Notes	P1 = 0	for Off,	1 for Or	1			

ZZPY Command

ZZPY So	ZZPY Sets or reads the Display Zoom slider											
Get	ZZPY	;										
Set	ZZPY	ZPY P1 P1 ;										
Answer	ZZPZ	P1	P1	P1	;							
Notes	P1: 010 (minimum zoom) to 240 (maximum zoom)											

ZZPZ Command

ZZPZ So	ZZPZ Sets or reads the Display Zoom buttons											
Get	ZZPZ	;										
Set	ZZPZ	P1	;									
Answer	ZZPZ	P1	;									
Notes	P1: 0 =	= 0.5X,	I = 1X,	2=2X,	3 = 4X							

ZZQx Commands

ZZQM Command

ZZQM	ZZQM Reads the Quick Save Memory value												
Get	ZZQM	;											
Set													
Answer	ZZQM	P1	P1	P1	P1	P1	P1	P1	P1	P1			
		P1 P1 ;											
Notes	P1 = fre	P1 = frequency in Hz (11 digits). Example: $14,320.150 = 00014320150$.											

ZZQR Command

ZZQR F											
Get											
Set	ZZQR	ZQR ;									
Answer											
Notes	ZZQR i	ZZQR is write-only									

ZZQS Command

ZZQS											
Set	ZZQS	;									
Notes	Write-o	nly									

ZZRx Commands

ZZRA Command

ZZRA Se	ZZRA Sets or reads the RTTY Offset Enable VFO A status										
Get	ZZRA	;									
Set	ZZRA	P1	;								
Answer	ZZRA	P1	;								
Notes	P1 = 0	for Off,	1 for Or	1							

ZZRB Command

ZZRB Se	ZZRB Sets or reads the RTTY Offset Enable VFO B status										
Get	ZZRB	;									
Set	ZZRB	RB P1 ;									
Answer	ZZRB	P1	;								
Notes	P1 = 0	P1 = 0 for Off, 1 for On									

ZZRC Command

ZZRC C	lears the	RIT fre	equency				
Set	ZZRC	;					
Notes	Write-o	nly					

ZZRD Command

ZZRD D	ecremen	ts the R	RIT Free	quency								
Get	ZZRD	;										
Set	ZZRD	P1	P1	P1	P1	P1	;					
Answer												
Notes	ZZRD											
		and 50 Hz in SSB. P1 (00000 – 99999) will set the RIT Frequency (also see										
	ZZRF).	ZZRF). Answer is always blank or an error message.										

ZZRF Command

ZZRF Se	ts or rea	ds the F	RIT freq	luency							
Get	ZZRF;										
Set	ZZRF	P1	P2	P2	P2	P2	;				
Answer	ZZRF	P1	P2	P2	P2	P2	;				
Notes	P1 = po	larity (+	or -)								
	P2 = fre	P2 = frequency in Hz.									

ZZRH Command

ZZRH Se	ZZRH Sets or reads the RTTY DIGH Offset Frequency													
Get	ZZRH;													
Set	ZZRH	P1	P2	P2	P2	P2	;							
Answer	ZZRH	P1	P2	P2	P2	P2	;							
Notes	P1 = pol P2 = fre	larity (+ quency	or -) in Hz.											

ZZRL Command

ZZRL Set	ts or read	ls the R	TTY D	IGL O	ffset Fre	equency	7					
Get	ZZRL;											
Set	ZZRL	P1	P2	P2	P2	P2	;					
Answer	ZZRL	P1	P2	P2	P2	P2	;					
Notes	P1 = po	P1 = polarity (+ or -)										
	P2 = fre	P2 = frequency in Hz.										

ZZRM Command

ZZRM	Reads the	e Cons	ole mete	r value	S					
Get	ZZRM	P1	;							
Set										
Answer	ZZRM	P1	P2	P2	P2	P2	P2	P2	P2	P2
	P2	P2	P2	P2	P2	P2	P2	P2	P2	P2
	P2	P2	;							
Notes	P1 Valu	ies:	<u>'</u>	•	•	<u>'</u>	•		•	
	0 = Sign	nal Stre	ngth							
	1 = Ave	erage S	trength							
	2 = AD	C_L								
	3 = AD	C_R								
	4 = ALC	\mathbb{C}								
	5 = For	ward P	ower							
	6 = Pea	k Powe	er no lon	ger used	d, will r	eturn "?	.,,			
	7 = Rev	erse Po	ower							
	8 = SW	R								
	P2 is pa	dded le	eft with	spaces.						
	ZZRM	is read-	only. S	WR onl	y works	in TUN	V.			

ZZRS Command

ZZRS Se	ts or rea	ds the F	RX2 ena	ble but	ton stat	us				
Get	ZZRS	;								
Set	ZZRS	P1	;							
Answer	ZZRS	P1	;							
Notes	P1 = 0	P1 = 0 for Off, 1 for On								

ZZRT Command

ZZRT Se	ets or rea	ds the l	RIT ena	ble but	ton stat	us				
Get	ZZRT	;								
Set	ZZRT	P1	;							
Answer	ZZRT	P1	;							
Notes	P1 = 0	P1 = 0 for Off, 1 for On								

ZZRU Command

ZZRU I	ncremen	ts the R	IT Freq	uency								
Get	ZZRU	;										
Set	ZZRU	P1	P1	P1	P1	P1	;					
Answer												
Notes	ZZRU	without	paramet	ers incre	ements t	he RIT	frequenc	y by 10	Hz in C	CW		
	and 50	and 50 Hz in SSB. P1 (00000 – 99999) will set the RIT Frequency (also see										
	ZZRF).	ZZRF). Answer is always blank or an error message.										

ZZRV Command

ZZRV Re	ZZRV Reads the primary input voltage												
Get	ZZRV	;											
Answer	ZZRV	P1	P1	P1	P1								
Notes	Notes Read-only; returns nn.n												

ZZSx Commands

ZZSA Command

ZZSA	Moves VF	O A do	wn one	Tune S	tep			
Set	ZZSA	;						
Notes	Write-c	nly						

ZZSB Command

ZZSB	Moves VF	O A up	one Tu	ne Step			
Set	ZZSB	;					
Notes	Write-o	only					

ZZSD Command

ZZSD 1	Decrements the Tune Step											
Set	ZZSD	;										
Notes	Write-o	nly										

ZZSF Command

ZZSF Sets the variable filter width and center (KD5TFD filters)													
Get													
Set	ZZSF	P1	P1	P1	P1	P2	P2	P2	P2	;			
Answer													
Notes	P1 = ce	enter fre	quency i	n Hz.									
	P2 = w	P2 = width in Hz .											
	ZZSF is write-only.												

ZZSG Command

ZZSG Moves VFO B down one Tune Step												
Set	ZZSG	;										
Notes	Write-o	Write-only										
	•	•	•			•		•				

ZZSH Command

ZZSH Moves VFO B up one Tune Step												
Set	ZZSH	;										
Notes	Write-o	nly										

ZZSM Command

ZZSM Reads the S-Meter												
Get	ZZSM	P1	;									
Set												
Answer	ZZSM	P1	P2	P2	P2	;						
Notes	P1: 0 =	RX1, 1	=RX2									
	P2 = 00	00 to 260)									
	ZZSM	does not	actually	y read th	ne S Met	ter, it rea	ads the s	signal st	rength in	n dBm.		
	S9 = -7	3 dBm.	Each in	cremen	t of ZZS	SM is ap	proxima	itely equ	al to 0.	5 dBm.		
	The ran	ge of th	e readin	g is -140	dBm to	О						
	-10 dBr	-10 dBm, a 130 dBm range with a scale factor of 2 (P2 max = 260). Use										
	ZZSM/	2 - 140	to get th	ne actual	RX sig	nal strer	ngth in d	Bm.				

ZZSN Command

ZZSN Reads the radio serial number													
Get	ZZSN	22.51											
Answer	ZZSN	P1	P1	P1	P2	P1	P1	P1	P1	P1			
Notes	P1 Exar ZZSN i)5-3456		•							

ZZSO Command

ZZSO So	ZZSO Sets or reads the Squelch on/off status											
Get	ZZSO	;										
Set	ZZSO	P1	;									
Answer	ZZSO	P1	;									
Notes	P1 = 0	P1 = 0 for off, 1 for on.										

ZZSP Command

ZZSP Se	ZZSP Sets or reads the VFO Split (SPLT) status											
Get	ZZSP	;										
Set	ZZSP	P1	;									
Answer	ZZSP	P1	;									
Notes	P1 = 0	P1 = 0 for off, 1 for on.										

ZZSQ Command

ZZSQ Se	ZZSQ Sets or reads the Squelch control											
Get	ZZSQ	;										
Set	ZZSQ	P1	P1	P1	;							
Answer	ZZSQ	P1	P1	P1	;							
Notes	P1: 00	P1: 000 to 160 except FM mode 000 to 100.										

ZZSR Command

ZZSR So	ZZSR Sets or reads the Spur Reduction button status											
Get	ZZSR	;										
Set	ZZSR	P1	;									
Answer	ZZSR	P1	;									
Notes	P1 = 0	P1 = 0 for OFF, 1 for ON.										

ZZSS Command

ZZSS Stops CWX sending (immediate)												
Set	ZZSS ;											
Notes	Write only											

ZZST Command

ZZST R	eads the	frequer	cy step	size (D	eprecat	ed, use	ZZAC f	for new	designs	s)
Get	ZZST	;								
Set										
Answer	ZZST	P1	P1	P1	P1	;				
Notes	P1 valu	es are ex	xpressec	l in BCI) power	s of 10 e	except for	or non-d	lecade	
	frequen	cies:								
	0000 =	10e0 =	1 Hz							
	0001 =	10e1 =	10 Hz							
	1000 =	special	default f	or 50 H	Z					
	0010 =	10e2 =	100 Hz							
	1001 =	special	default	for 250 l	Hz					
	1010 =	special	default	for 500 l	Hz					
	0011 =	10e3 =	1 kHz							
	1011 =	special	default	for 5 kH	Z					
	1100 =	special	default	for 9 kH	Z					
	0100 =	10e4 =	10 kHz							
	0101 =	10e5 =	100 kHz	Z						
	0110 =	10e6 =	1 MHz							
	0111 =	10e7 =	10 MHz							
	ZZST i	s read-o	nly.							

ZZSU Command

ZZSU Ir	crement	s the Tu	ıne Step	p			
Set	ZZSU	;					
Notes	Write-o	nly					

ZZSV Command

ZZSV Sets	s or read	s the R	X2 Sque	elch but	ton					
Get	ZZSV	;								
Set	ZZSV	P1	;							
Answer	ZZSV	P1	;							
Notes	P1: $0 = Off$, $1 = On$.									

ZZSW Command

ZZSW Set	ZZSW Sets or reads the VFO A TX/VFO B TX Buttons												
Get	ZZSW	;											
Set	ZZSW	P1	;										
Answer	ZZSW	P1	;										
Notes		P1: 0 set VFO A to TX, 1 sets VFO B to TX. ZZSW transmits status if Kenwood AI enabled.											

ZZSY Command

ZZSY Sets	s or read	s the V	FO Syn	c Buttor	1							
Get	ZZSY	;										
Set	ZZSY	ZSY P1 ;										
Answer	ZZSY	P1	;									
Notes	P1: $0 = VFO$ Sync off; $1 = VFO$ Sync on.											

ZZSX Command

ZZSX Se	ts or rea	ds the I	RX2 Squ	uelch Tl	hreshold	1				
Get	ZZSX	;								
Set	ZZSX	P1	P1	P1	;					
Answer	ZZSX	P1	P1	P1	;					
Notes	otes P1: 000 to 160 except FM mode 000 to 100.									

ZZSZ Command

ZZSZ Syr	ncs VFO	A or B	to the c	urrent	step size	9					
Set ZZSZ P1 ;											
Notes	P1: 0 =	= VFO A	1 = V	FO B. E	Example	: if VFO) A freq	uency is	s 14,123	.123	
	and the	step siz	e is 10 I	Hz, ZZS	Z0; will	set VFC) A to 1	4,123.13	30.		

ZZTx Commands

ZZTA Command

ZZTA S	ets or re	ads the	CTCSS	Enable	Button	l				
Get	ZZTA	;								
Set	ZZTA	P1	;							
Answer	ZZTA	P1	;							
Notes	Notes $P1 = 0$ for disabled, 1 for enabled.									



ZZTB Command

ZZ I D COII									
ZZTB Se	ts or rea	ds the (CTCSS	Tone F	requenc	e y			
Get	ZZTB	;							
Set	ZZTB	P1	P1	;					
Answer	ZZTB	P1	P1	;					
Notes	P1:					•		•	
	01 = 67	0.0	21	l = 131.3	3	41	= 206.5		
	02 = 69	.3	22	2 = 136.3	5	42	= 210.7		
	03 = 71	.9	23	3 = 141.3	3	43	= 218.1		
	04 = 74	.4	24	4 = 146.2	2	44	= 225.7		
	05 = 77	0.0	25	5 = 151.4	4	45	= 229.1		
	06 = 79	.7	26	6 = 156.	7	46	= 233.6		
	07 = 82	5	27	7 = 159.3	3	47	= 241.8		
	08 = 85	.4	28	3 = 162.2	2	48	= 250.3		
	09 = 88	5.5	29	$\theta = 165.3$	5	49	= 254.1		
	10 = 91	.5	30	0 = 167.9	9				
	11 = 94	.8	31	l = 171.3	3				
	12 = 97	.4	32	2 = 173.3	3				
	13 = 10	0.0	33	3 = 177.3	3				
	14 = 10	3.5	34	4 = 179.9	9				
	15 = 10	7.2	35	5 = 183.3	5				
	16 = 11	0.9	36	6 = 186.3	2				
	17 = 11	4.8	37	7 = 189.9	9				
	18 = 11	8.8	38	3 = 192.3	3				
	19 = 12	3.0	39	$\theta = 199.3$	5				
	20 = 12	7.3	4(0 = 203.3	5				

ZZTF Command

ZZTF So	ets or rea	ads the	Show T	X Filter	checkb	ox stat	us			
Get	ZZTF	;								
Set	ZZTF	P1	;							
Answer	ZZTF	P1	;							
Notes	tes $P1 = 0$ for disabled, 1 for enabled.									

ZZTH Command

ZZTH Se	ets or rea	ds the	TX Filte	er High	setting						
Get	ZZTH	;									
Set	ZZTH	P1	P1	P1	P1	P1	;				
Answer	ZZTH	P1	P1	P1	P1	P1	;				
Notes	P1 = 00	P1 = 00500 to 20000.									

ZZTI Command

ZZTI Tra	ansmit I	nhibit								
Set	ZZTI	P1	;							
Notes	P1: 1 =			,						
	You must follow a ZZTI1 with a ZZTI0 to re-enable the transmitter.									

ZZTL Command

ZZTL Se	ts or rea	ds the	ΓX Filte	er Low s	setting					
Get	ZZTL	;								
Set	ZZTL	P1	P1	P1	P1	;				
Answer	ZZTL	P1	P1	P1	P1	;				
Notes	P1 = 0000 to 2000.									

ZZTM Command

ZZTM S	ets or rea	ds the	TX AF	Monito	r			
Get	ZZTM	;						
Set	ZZTM	P1	P1	P1	;			
Answer	ZZTM	P1	P1	P1	;			
Notes	P1 = 00	0 to 100).					

ZZTO Command

ZZTO Se	ets or rea	ds the	TUN po	wer set	ting			
Get	ZZTO	;						
Set	ZZTO	P1	P1	P1	;			
Answer	ZZTO	P1	P1	P1	;			
Notes	P1 = 00	00 to 100).					

ZZTP Command

ZZTP Se	ts or rea	ds the T	Fransmi	t Profil	le							
Get	ZZTP	;										
Set	ZZTP	P1	P1	;								
Answer	ZZTP	2311 11 11 1 1 1 1 1 1										
Notes	P1: 00	P1: 00 = Conventional										
	01	01 = DX/Contest										
	02	= ESSB	}									
	03	03 = AM										
	Above	Above only correct if no custom profiles saved. P1 is equal to the index										
	value o	f the pro	ofile nan	ne in the	e Transr	nit Prof	ile drop	down lis	st.			

ZZTS Command

ZZTS Re	ZZTS Reads the FLEX5000 Temperature Sensor											
Get	ZZTS	;										
Answer	ZZTS	P1	P1	P1	P1	P1	;					
Notes	P1 = tw 103.1.	o places	s below	100 deg	rees, on	e place	above 10	00 degre	es: 28.9	92 or		
	103.1.											

ZZTU Command

ZZTU Se	ts or rea	ds the	Tune (T	UN) sta	itus					
Get	ZZTU	;								
Set	ZZTU	P1	;							
Answer	ZZTU	P1	;							
Notes	lotes $P1 = 0$ for off, 1 for on. Console power must be on for TUN to function.								1.	

ZZTV Command

ZZTV Se	I V												
Get	ZZTV	;											
Set	ZZTV	P1	P1	P1	P1	P1	P1	P1	P1	P1			
		P1	P1	;									
Answer	ZZTV	P1	P1	P1	P1	P1	P1	P1	P1	P1			
		P1	P1	;									
Notes	P1 = free	equency	in Hz (11 digits	s). Blan	k digits	must be	0. Exa	mple:				
	14,320.	14,320.150 = 00014320150. Only works when RX2 enabled and Split or											
	MultiR	X mode	s selecte	ed. F5K	only.								

ZZTX Command

ZZTX Se	ets or rea	ds the I	MOX bu	utton st	atus			
Get	ZZTX	;						
Set	ZZTX	P1	;					
Answer	ZZTX	P1	;					
Notes	P1 = 0	for off,	1 for on.					

ZZUx Commands

ZZUA Command

ZZUA Re	eads the	XVTR	Band B	utton N	ames						
Get	ZZUA	;									
Answer	ZZUA	P1	P1	P1	P1	P1	P2	P2	P2	P2	
	P2	P3	P3	P3	P3	P3	P4	P4	P4	P4	
	P4	P5	P5	P5	P5	P5	P6	P6	P6	P6	
	P6	P7	P7	P7	P7	P7	P8	P8	P8	P8	
	P8	P9	P9	P9	P9	P9	P10	P10	P10	P10	
	P10	P11	P11	P11	P11	P11	P12	P12	P12	P12	
	P12	P13	P13	P13	P13	P13	P14	P14	P14	P14	
	P14	;									
Notes	P1 thru	P1 thru P14 equal exactly 70 character spaces and must contain either an									
	ASCII	ASCII character or a space. Each group of five characters contains the name									
	of the c	orrespoi	nding n-	1 XVTF	R button	name:	P1 = bu	tton 0.			

ZZVx Commands

ZZVA Command

ZZVA Se	ets or rea	ds the	VAC1 b	utton st	atus					
Get	ZZVA	;								
Set	ZZVA	P1	;							
Answer	ZZVA	P1	;							
Notes	P1 = 0 for OFF, 1 for ON.									

ZZVB Command

ZZVB Se	ets or rea	ds the \	VAC1 R	X Gain	l					
Get	ZZVB	;								
Set	ZZVB	P1	P1	P1	;					
Answer	ZZVB	P1	P1	P1	;					
Notes	P1 = -40 to +40 (positive values must lead with sign or "0")									

ZZVC Command

ZZVC Se	ets or rea	ds the	VAC1 T	X Gain						
Get	ZZVC	;								
Set	ZZVC	P1	P1	P1	;					
Answer	ZZVC	P1	P1	P1	;					
Notes	P1 = -40 TO +40 (positive value must lead with sign or "0"									

ZZVD Command

ZZVD Se	ets or rea	ds the	VAC1 S	ample l	Rate			
Get	ZZVD	;						
Set	ZZVD	P1	;					
Answer	ZZVD	P1	;					
Notes	P1:							
	0 = 600	0						
	1 = 800	0						
	2 = 110	25						
	3 = 120	00						
	4 = 240	00						
	5 = 220	50						
	6 = 441	00						
	7 = 480	00						
	8 = 960	00						
	9 = 192	000						

ZZVE Command

ZZVE S	ets or re	ads the	VOX b	utton st	atus			
Get	ZZVE	;						
Set	ZZVE	P1	;					
Answer	ZZVE	P1	;					
Notes	P1 = 0	for OFF	, 1 for C	N.				

ZZVF Command

ZZVF Se	ts or rea	ds the	VAC1 S	tereo bi	ıtton sta	atus		
Get	ZZVF	;						
Set	ZZVF	P1	;					
Answer	ZZVF	P1	;					
Notes	P1 = 0	for OFF	, 1 for C	N.				

ZZVG Command

ZZVG S	ets or rea	ads the	VOX G	ain valı	ue			
Get	ZZVG	;						
Set	ZZVG	P1	P1	P1	P1	;		
Answer	ZZVG	P1	P1	P1	P1	;		
Notes	P1 = 00	000 to 10	000.					

ZZVH Command

ZZVH S	ets or rea	ds the l	/Q TO	VAC1 (Checkbo	X		
Get	ZZVH	;						
Set	ZZVH	P1	;					
Answer	ZZVH	P1	;					
Notes	P1 = 01	for OFF	, 1 for C	N.				

ZZVI Command

ZZVI Se	ts or rea	ds the V	AC1 I	nput Ca	ble						
Get	ZZVI	;									
Set	ZZVI	ZVI P1 P1 ;									
Answer	ZZVI	P1	P1	;							
Notes	P1 = 00	P1 = 00 to 99, actual input cable depends on VAC driver selected									

ZZVJ Command

ZZVJ Se	ts or reac	ds the I	Q to VA	C1 Use	RX2 C	heckbo	X				
Get	ZZVJ	;									
Set	ZZVJ	P1	;								
Answer	ZZVJ	P1	;								
Notes	P1 = 01	P1 = 0 for OFF, 1 for ON.									
	ZZVH	ZZVH must be set before ZZVJ will work.									

ZZVK Command

ZZVK S	ets or rea	ds the \	VAC2 e	nable st	atus					
Get	ZZVK	;								
Set	ZZVK	P1	;							
Answer	ZZVK	P1	;							
Notes	P1 = 0 for OFF, 1 for ON.									

ZZVL Command

ZZVL S	ets or re	ads the	VFO L	ock stat	us					
Get	ZZVL	;								
Set	ZZVL	P1	;							
Answer	ZZVL	P1	;							
Notes	Notes $P1 = 0$ for off, 1 for on.									

ZZVM Command

ZZVM S	ets or rea	ds the	VAC1 I	Driver						
Get	ZZVM	;								
Set	ZZVM	P1	P1	;						
Answer	ZZVM	P1	P1	;						
Notes	P1 = 00 to 99. When you change driver you must reset the I/O cables									

ZZVN Command

ZZVN I	Reads the	Powers	SDR sof	tware v	ersion i	number						
Get	ZZVN	;										
Set												
Answer	ZZVN	P1	;									
Notes	Returns	Returns ZZVN001.3.14.0; twelve total characters including decimal points.										

ZZVO Command

ZZVO S	ets or re	ads the	VAC1	Output	Cable						
Get	ZZVO	;									
Set	ZZVO	P1	P1	;							
Answer	ZZVO	P1	P1	;							
Notes	P1 = 00	P1 = 00 to 99, actual output cable depends on VAC driver selected									

ZZVP Command

ZZVP So	ets or rea	ads the	VAC1 I	Q Calib	rate Cl	neckbox	ζ		
Get	ZZVP	;							
Set	ZZVP	P1	;						
Answer	ZZVP	P1	;						
Notes	P1 = 0	for off,	l for on.						

ZZVQ Command

ZZVQ Se	ets or rea	ds the	VAC2 D	Priver						
Get	ZZVQ	;								
Set	ZZVQ	P1	P1	;						
Answer	ZZVQ	P1	P1	;						
Notes	P1 = 00	P1 = 00 to 99. When you change driver you must reset the I/O cables								

ZZVR Command

ZZVR S	ets or rea	ads the	VAC2 I	Input C	able						
Get	ZZVR	;									
Set	ZZVR	ZVR P1 P1 ;									
Answer	ZZVR	P1	P1	;							
Notes	P1 = 00	P1 = 00 to 99, actual input cable depends on VAC driver selected									

ZZVS Command

ZZVS Se	ets the V	FO Swa	ap statu	S			
Get							
Set	ZZVS	P1	;				
Answer							
Notes	P1 valu						
	0 = A > 1	В					
	1 = A < 1	В					
	0 = A > 1 $1 = A < 1$ $2 = A < 2$	>B					
	ZZVS i		only.				

ZZVT Command

ZZVT S	ets or rea	ads the	VAC2 (Output (Cable					
Get	ZZVT	;								
Set	ZZVT	P1	P1	;						
Answer	ZZVT	P1	P1	;						
Notes	P1 = 00 to 99, actual output cable depends on VAC driver selected									

ZZVU Command

ZZVU Se	ts or rea	ds the	VAC1 S	ample l	Rate			
Get	ZZVU	;						
Set	ZZVU	P1	;					
Answer	ZZVU	P1	;					
Notes	P1:							
	0 = 600	0						
	1 = 800	0						
	2 = 110	25						
	3 = 120	00						
	4 = 240	00						
	5 = 220	50						
	6 = 441	00						
	7 = 480	00						
	8 = 960	00						
	9 = 192	000						

ZZVV Command

ZZVV Se	ZZVV Sets or reads the VAC2 Stereo button status												
Get	ZZVV	;											
Set	ZZVV	P1	;										
Answer	ZZVV	P1	;										
Notes	Notes $P1 = 0$ for OFF, 1 for ON.												

ZZVW Command

ZZVW S	ets or rea	ds the	VAC2 I	RX Gai	n				
Get	ZZVW	;							
Set	ZZVW	P1	P1	P1	;				
Answer	ZZVW	P1	P1	P1	;				
Notes	P1 = -40) to +40	(positiv	e value	s must le	ead with	sign or	"0"	

ZZVX Command

ZZVX Se	ets or rea	ds the	VAC2 T	'X Gain	l					
Get	ZZVX	;								
Set	ZZVX	P1	P1	P1	;					
Answer	ZZVX	P1	P1	P1	;					
Notes	P1 = -40 TO + 40 (positive value must lead with sign or "0"									

ZZVY Command

ZZVY Se	ets or rea	ds the	VAC1 I	Buffer Si	ize			
Get	ZZVY	;						
Set	ZZVY	P1	;					
Answer	ZZVY	P1	;					
Notes	P1:							
	0 = 512							
	1 = 102	4						
	2 = 204	8						

ZZVZ Command

ZZVY Se	ets or rea	ds the	VAC2	Buffer	Size			
Get	ZZVZ	;						
Set	ZZVZ	P1	;					
Answer	ZZVZ	P1	;					
Notes	P1:							
	0 = 512							
	0 = 512 1 = 102 2 = 204	4						
	2 = 204	8						

ZZWx Commands

ZZWA Command

ZZWA S	ets or rea	ds the	F5K Mi	xer Mi	c Level						
Get	ZZWA	;									
Set	ZZWA	P1	P2	P2	P2	;					
Answer	ZZWA	P1	P2	P2	P2	;					
Notes	P1 = po	P1 = polarity (+ or -)									
	P2 = +000 to -128										

ZZWB Command

ZZWB Se	ets or reac	ds the l	F5K Mi	xer Lin	e In RC	A Leve	l					
Get	ZZWB	;										
Set	ZZWB	P1	P2	P2	P2	;						
Answer	ZZWB	P1	P2	P2	P2	;						
Notes	P1 = po	P1 = polarity (+ or -)										
	P2 = +000 to -128											

ZZWC Command

ZZWC S	ets or rea	ds the	F5K M	lixer Li	ne In P	hono L	evel		
Get	ZZWC	;							
Set	ZZWC	P1	P2	P2	P2	;			
Answer	ZZWC	P1	P2	P2	P2	;			
Notes	P1 = po P2 = +0	larity (-	+ or -)						
	P2 = +0	00 to -1	128						

ZZWD Command

ZZWD Se	ets or reac	ds the l	F5K Mi	ixer Lir	ne In DI	39 Leve	el		
Get	ZZWD	;							
Set	ZZWD	P1	P2	P2	P2	;			
Answer	ZZWD	P1	P2	P2	P2	;			
Notes	P1 = pol	larity (+	or -)						
	P2 = +0	00 to -1	128						

ZZWE Command

ZZWE Se	ts or rea	ds the I	F1500/F	5K Mix	er Mic	Select C	Checkbo	X				
Get	ZZWE	;										
Set	ZZWE	P1	;									
Answer	ZZWE	P1	;									
Notes	P1: 0=	Off, 1 =	On. N	ote: Th	e F1500	Mic an	d FlexW	Vire mix	er input	s are		
	mutuall	mutually exclusive, i.e., only one can (and must) be enabled. Use only P1 =										
	1 for the F1500, P1 = 0 is not valid. See ZZWH. Set one or the other.											

ZZWF Command

ZZWF Se	ts or rea	ds the I	5K Mix	ker Line	In RC	A Select	Check	box		
Get	ZZWF	;								
Set	ZZWF	P1	;							
Answer	ZZWF	P1	;							
Notes	Notes P1: $0 = Off$, $1 = On$.									

ZZWG Command

ZZWG So	ets or rea	ds the l	F5K Bal	Line I	1 Select	Checkl	ox			
Get	ZZWG	;								
Set	ZZWG	P1	;							
Answer	ZZWG	P1	;							
Notes	P1: $0 = Off$, $1 = On$.									

ZZWH Command

ZZWH Se	ets or rea	ds the l	F1500/F	5K Flex	Wire/N	Iixer Li	ine In D	B9 Sele	ect Chec	ekbox		
Get	ZZWH	;										
Set	ZZWH	P1	;									
Answer	ZZWH	P1	;									
Notes	P1: 0 =	Off, 1 =	On. Th	ne F150	0 Mic ar	nd FlexV	Wire mix	xer inpu	ts are			
	mutually	mutually exclusive, i.e., only one can (and must) be enabled. Use only P1 =										
	1 for the	1 for the F1500, P1 = 0 is not valid. See ZZWE. Set one or the other.										

ZZWJ Command

ZZWJ Se	ts or reac	ds the I	T1500/F	5K Mix	er Inpu	t Mute	All Butt	on	
Get	ZZWJ	;							
Set	ZZWJ	P1	;						
Answer	ZZWJ	P1	;						
Notes	P1: 0 =	Off, 1	= On.					•	

ZZWK Command

ZZWK S	ets or rea	ds the	F5000C	Mixer	Interna	l Speak	er Leve	el			
Get	ZZWK	;									
Set	ZZWK	P1	P1	P1	;						
Answer	ZZWK	P1	P1	P1	;						
Notes	P1 = 12	P1 = 128 TO 255									
	Only valid with FLEX5000C +										

ZZWL Command

ZZWL S	ets or rea	ds the	F5K Mi	xer Ext	ernal S	peaker :	Level				
Get	ZZWL	;									
Set	ZZWL	P1	P1	P1	;						
Answer	ZZWL	P1	P1	P1	;						
Notes	Notes P1 = 128 TO 255										

ZZWM Command

ZZWM S	Sets or rea	ds the	F5K Mi	ixer He	adphon	e Level				
Get	ZZWM	;								
Set	ZZWM	P1	P1	P1	;					
Answer	ZZWM	P1	P1	P1	;					
Notes	Notes P1 = 128 TO 255									

ZZWN Command

ZZWN S	ets or rea	ds the	F5K Mi	ixer Lin	e Out R	RCA Lev	vel			
Get	ZZWN	;								
Set	ZZWN	P1	P1	P1	;					
Answer	ZZWN	P1	P1	P1	;					
Notes P1 = 128 TO 255										

ZZWO Command

ZZWO Se	ets or rea	ds the l	F5K Mi	xer Inte	rnal Sp	eaker S	elect C	heckbox	K		
Get	ZZWO	;									
Set	ZZWO	P1	;								
Answer	ZZWO	P1	;								
Notes	P1: 0 =	P1: $0 = Off, 1 = On.$									
	Only valid with FLEX5000C +										

ZZWP Command

ZZWP Se	ets or rea	ds the	F5K Mi	xer Exte	ernal Sp	eaker S	elect C	heckbox	X	
Get	ZZWP	;								
Set	ZZWP	P1	;							
Answer	ZZWP	P1	;							
Notes	es P1: $0 = Off$, $1 = On$.									

ZZWQ Command

ZZWQ S	ets or rea	ds the	F1500/F	5K Mix	er Head	dphone	Select (Checkbo	X	
Get	ZZWQ	;								
Set	ZZWQ	P1	;							
Answer	ZZWQ	P1	;							
Notes	P1: 0 =	Off, 1	= On.							

ZZWR Command

ZZWR Se Checkbox		ds the	F1500/I	F5K Mix	er Flex	Wire/Li	ine Out	RCA S	elect	
Get	ZZWR	;								
Set	ZZWR	P1	;							
Answer	ZZWR	P1	;							
Notes	P1: 0 =	Off, 1	= On.							

ZZWS Command

ZZWS Se	ts or reac	ds the	F1500/F	5K Mix	er Outp	ut Mut	e All Bu	itton	
Get	ZZWS	;							
Set	ZZWS	P1	;						
Answer	ZZWS	P1	;						
Notes	P1: 0 =	Off, 1	= On.						

ZZWT Command

ZZWT Se	ets or reac	ds the I	F1500 M	Iixer M	ic Leve	l		
Get	ZZWT	;						
Set	ZZWT	P1	P1	P1	;			
Answer	ZZWT	P1	P1	P1	;			
Notes	P1 = 000	0 to 119)					

ZZWU Command

ZZWU Se	ets or rea	ds the l	F1500 N	Iixer F	lexWire	e Input	Level		
Get	ZZWU	;							
Set	ZZWU	P1	P1	P1	;				
Answer	ZZWU	P1	P1	P1	;				
Notes	P1 = 000	0 to 119)						

ZZWV Command

ZZWV Se	ets or rea	ds the	F1500 I	Phones	Out Le	vel		
Get	ZZWV	;						
Set	ZZWV	P1	P1	P1	;			
Answer	ZZWV	P1	P1	P1	/			
Notes	P1 = 000	0 to 12	7					

ZZWW Command

ZZWW S	ets or rea	ds the	F1500	Mixer I	FlexWi	re Out I	Level		
Get	ZZWW	;							
Set	ZZWW	P1	P1	P1	;				
Answer	ZZWW	P1	P1	P1	/				
Notes	P1 = 000	to 12'	7	•	•	•		•	

ZZXx Commands

ZZXC Command

ZZXC (Clears the	XIT fr	equenc	y (XIT[0])			
Set	ZZXC	;						
Notes	ZZXC	is write-	only.					

ZZXF Command

ZZXF Se	ts or rea	ds the Y	XIT freq	uency					
Get	ZZXF	;							
Set	ZZXF	P1	P2	P2	P2	P2	;		
Answer	ZZXF	P1	P2	P2	P2	P2	•		
Notes	P1 = po	larity (+	or -)						
	P2 = fre	quency	in Hz.						

ZZXS Command

ZZXS Se	ts or reac	ds the X	IT enal	ble butt	on					
Get	ZZXS	;								
Set	ZZXS	P1	;							
Answer	ZZXS	P1	;							
Notes	P1: $0 = Off$, $1 = On$.									

ZZXT Command

ZZXT S	ets or re	ads the	Externa	al Conti	rol (X27	ΓR) but	ton stat	us		
Get	ZZXT	;								
Set	ZZXT	P1	;							
Answer	ZZXT	P1	;							
Notes	es $P1 = 0$ for OFF, 1 for ON.									

ZZYx Commands

ZZYA Command

ZZYA Se	ts or reac	ds the V	AC2 D	irect IQ	Check	box				
Get	ZZYA	;								
Set	ZZYA	P1	;							
Answer	ZZYA	P1	;							
Notes	Notes $P1 = 0$ for OFF, 1 for ON.									



ZZYB Command

ZZYB Set	ts or reac	ds the V	AC2 I) Calibi	ate Ch	eckbox				
Get	ZZYB	;								
Set	ZZYB	P1	;							
Answer	ZZYB	P1	;							
Notes	P1 = 0	P1 = 0 for OFF, 1 for ON.								

ZZYC Command

ZZYB Set	ts or reac	ds the F	M Mic	Gain						
Get	ZZYC	;								
Set	ZZYB	P1	P1	;						
Answer	ZZYB	P1	P1	;						
Notes	P1 = 01	P1 = 0 to 70								

ZZZx Commands

ZZZB Command

ZZZB	Clicks the	Zero B	eat (0 B	eat) bu	tton			
Set	ZZZB	;						
Notes	Write-o	nly.						

Kenwood Compatible Command Syntax

AG Command

AG Sets	or reac	ls the A	F Gain	thumby	vheel co	ntrol						
Get	AG	P1	;									
Set	AG	P1	P2	P2	P2	;						
Answer	AG	AG P1 P2 P2 P2 ;										
Notes	P1 = 0	for main	n transce	eiver, 1 f	for futur	e sub rec	ceiver. I	P2 = 000) to 255			
	(scaled	(scaled 0 to 100 in software). A Set value of 127 = 50 on the AF Gain										
	thumbwheel. Also see ZZAG.											

AI Command

AI Sets of	r reads	the Au	to Infor	mation	function	1				
Get	AI	;								
Set	AI	P1	;							
Answer	AI	P1	:							
Notes	P1 = 0	for Off,	1 or mo	ore for C	n. Whe	en On, th	ne radio	will bro	adcast tl	ne
	VFO (VFO (A or B) frequency when changed. Option checkbox on the Setup/CAT								
	tab must be checked to allow this command.									

BD Command

BD Mov	BD Moves the transceiver down one band									
Get										
Set	BD	;								
Answer										
Notes	BD is write-only									

BU Command

BU Mov	BU Moves the transceiver up one band									
Get										
Set	BU	;								
Answer										
Notes	BU is write-only									



CN Command

CN Sets o	r reads t	the CTO	CSS Ton	ie Frequ	iency				
Get	CN	;							
Set	CN	P1	P1	;					
Answer	CN	P1	P1	;					
Notes	P1:		•						
	01 = 67	' .0	21	1 = 131.	8	41	= 206.5		
	02 = 69	0.3	22	2 = 136.	5	42	= 210.7		
	03 = 71	.9	23	3 = 141.	3	43	= 218.1		
	04 = 74	1.4	24	4 = 146.3	2	44	= 225.7		
	05 = 77	' .0	25	5 = 151.4	4	45	= 229.1		
	06 = 79	0.7	2ϵ	6 = 156.	7	46	= 233.6		
	07 = 82	2.5	27	7 = 159.	8	47	= 241.8		
	08 = 85	5.4	28	3 = 162.3	2	48	= 250.3		
	09 = 88	3.5	29	$\theta = 165.$	5	49	= 254.1		
	10 = 91	.5	30	0 = 167.	9				
	11 = 94	.8	31	1 = 171.3	3				
	12 = 97	'.4	32	2 = 173.	8				
	13 = 10	0.00	33	3 = 177.3	3				
	14 = 10	3.5	34	4 = 179.	9				
	15 = 10	7.2	35	5 = 183.	5				
	16 = 11	0.9	36	6 = 186.3	2				
	17 = 11	4.8	37	7 = 189.	9				
	18 = 18	88.8	38	3 = 192.	8				
	19 = 12	23.0	39	9 = 199.	5				
	20 = 12	27.3	4(0 = 203.	5				

CT Command

CT Sets	or reads	the CT	CSS Er	nable Bu	itton						
Get	CT	;									
Set	CT	T P1 ;									
Answer	CT	P1	;								
Notes	P1 = 0 for disabled, 1 for enabled.										

DN Command

DN Mov	DN Moves VFO A down by the increment set in step size									
Get										
Set	DN	;								
Answer										
Notes	Notes DN is write-only									

FA Command

FA Sets	or read	s VFO	A frequ	ency						
Get	FA	;								
Set	FA	P1	P1	P1	P1	P1	P1	P1	P1	P1
		P1	P1	;						
Answer	FA	P1	P1	P1	P1	P1	P1	P1	P1	P1
		P1	P1	;						
Notes			y in Hz ()001432		s). Blan	k digits	must be	0. Exa	mple:	

FB Command

FB Sets	11												
Get	FB	;											
Set	FB	P1	P1	P1	P1	P1	P1	P1	P1	P1			
		P1	P1	;									
Answer	FB	P1	P1	P1	P1	P1	P1	P1	P1	P1			
		P1	P1	;									
Notes			in Hz ()001432		s). Blan	k digits	must be	0. Exa	mple:				

FR Command

FR Sets	or read	s the tr	ansceive	er receiv	e VFO						
Get	FR	;									
Set	FR	P1	;								
Answer	FR	P1	;								
Notes	Added for third-party compatibility. P1 = 0 since the FlexRadio VFO A is										
	always	the rece	eive VF0	Э.							

FT Command

FT Sets	FT Sets or reads the transceiver transmit VFO (ZZSW)											
Get	FT	;										
Set	FT	P1	;									
Answer	FT	P1	;									
Notes	P1 = 0 for VFO A, 1 for VFO B.											

FW Command

FW Sets	s or reac	ds the D	SP rece	ive filte	r width	(obsole	te 4/4/20	007, not	active)		
Get	FW	;									
Set	FW	P1	P1	P1	P1	;					
Answer	FW	P1	P1	P1	P1	;					
Notes	Notes FW only accepts FlexRadio filter widths. See ZZFI for values.										

GT Command

GT Sets	or read	ls the A	GC time	e consta	nt thun	nbwheel	contro	(ZZGI	[]	
Get	GT	;								
Set	GT	P1	P1	P1	;					
Answer	GT	P1	P1	P1	;					
Notes	P1: Fi	xed = 00 n.	00, Long	g = 001,	Slow =	002, Me	ed = 003	004 = 1	Fast, 005	5 =

ID Command

ID Read	ls the tr	ansceive	er ID nu	ımber (To set u	se ZZID	D)			
Get	ID	;								
Set										
Answer	ID	P1	P1	P1	;					
Notes	P1 def 020(TS	aults to (S-480)	019 (TS	-2000).	ID is rea	d-only.	013(TS-	50s), 900	O(SDR-1	000)



IF Command

IF Read	s the tra	ansceive	er status	(uses Z	ZFA or	ZZFB)						
Get	IF	;										
Set												
Answer	IF	P1	P1	P1	P1	P1	P1	P1	P1	P1		
	P1	P1	P2	P2	P2	P2	P3	P3	P3	P3		
	P3	P3	P4	P5	P6	P7	P7	P8	P9	P10		
	P11	P12	P13	P14	P14	P15	;					
Notes	,	characte			•							
	P2 (4 c	characte	s) Frequ	iency ste	ep size e	xpressed	d in pow	ers of 1	0 (see Z	ZST).		
	`	characte	,				or –nnn	nn).				
	P4 (1 c	characte	r) RIT st	atus. 0	= off, 1 =	= on.						
	P5 (1 c	characte	c) XIT st	atus. 0	= off, 1	= on.						
	P6 (1 c	characte	r) Chann	el bank	number	. Not us	sed, defa	ulted to	0.			
	P7 (2 c	characte	s) Chan	nel bank	numbe	r. Not u	sed, defa	aulted to	00.			
	P8 (1 c	characte	OMOX (button s	status. 0	= off, 1	= on $(tr$	ansmitti	ng).			
	P9 (1 c	characte	r) Opera	ting mod	de. See	MD for	settings	•				
	P10 (1	characte	er) VFO	Split st	atus. Sa	me as F	R (alway	ys 0).				
	P11 (1	characte	er) Scan	status.	Not imp	lemente	d, defau	lted to 0).			
	P12 (1	characte	er) VFO	Split sta	atus. Sai	me as F	Γ.					
	P13 (1	characte	er) CTC	SS tone.	. Not us	ed, defa	ulted to	0.				
	P14 (2	P14 (2 characters) More tone controls. Not used, defaulted to 00.										
	P15 (1 character) Shift status. Not used, defaulted to 0.											
	P9 wil	l return a	a space i	f a non-	Kenwoo	od mode	is select	ted on th	ne FlexR	ladio.		

KS Command

KS Sets o	r reads	CWX (CW spee	d (ZZK	(S)			
Get	KS	;						
Set	KS	P1	P1	P1	;			
Answer	KS	P1	P1	P1	1			
Notes	P1 01	0 – 060	in WPM	ĺ		•		

KY Command

KY Sen	ds text 1	to CWX	for cor	version	to Moi	rse					
Get	KY	;									
Set	KY	P1	P2	P2	P2	P2	P2	P2	P2	P2	
	P2	P2	P2	P2	P2	P2	P2	P2	P2	P2	
	P2	P2	P2	P2	P2	P2	;				
Answer	KY	P1	;								
Notes	Get: I	$P1 \ 0 = C$	haracter	buffer	available	e, 1 = C	haracter	buffer n	ot availa	able	
	(> 72 characters in the buffer). Set: P1 = space, P2 up to 24 ASCII printing										
	characters. Empty character positions in P2 must contain a space.										

MD Command

MD Sets	s or reac	ds the t	ransceiv	er oper	ating m	ode		
Get	MD	;						
Set	MD	P1	;					
Answer	MD	P1	;					
Notes	P1 valı	ues:						
	1 = LS	В						
	2 = US	$^{\mathrm{SB}}$						
	3 = CV	VU						
	4 = FN	1						
	5 = AN	M						
	6 = RT	TY (DI	GL)					
	7 = CV	VL						
	9 = FS	K-R (D	IGU)					

MG Command

MG Set	s or rea	ds the N	Iicroph	one Gai	n thum	bwheel	control	(ZZMG	;)	
Get	MG	;								
Set	MG	P1	P1	P1	;					
Answer	MG	P1	P1	P1	;					
Notes $P1 = 000 \text{ to } 100.$										

MO Command

MO Sets or reads the Monitor (MON) status											
Get	MO	;									
Set	MO	P1	;								
Answer	MO	P1	;								
Notes	P1 = 0 for off, 1 for on.										

NB Command

NB Sets	or read	ls the No	oise Bla	nker 1 (NB1) st	atus			
Get	NB	;							
Set	NB	P1	;						
Answer	NB	P1	;						
Notes	P1 = 0 for off, 1 for on.								

NT Command

NT Sets	or read	s the Au	utomati	c Notch	Filter (ANF) st	tatus		
Get	NT	;							
Set	NT	P1	;						
Answer	NT	P1	;						
Notes	otes $P1 = 0$ for off, 1 for on.								

OF Commands

OF Sets of	or reads	the FM	Repeat	er Offse	et Frequ	iency					
Get	OF	;									
Set	OF	P1	P1	P1	P1	P1	P1	P1	P1	P1;	
Answer	OF	P1	P1	P1	P1	P1	P1	P1	P1	P1;	
Notes	P1 = 00	P1 = 000000000 to 999999999 Hz. 001000000 = 1.0 MHz, 000600000 =									
	600 KHz. Must have leading zeros.										

OS Commands

OS Sets	or reads	the FM	Offset	Direction	n			
Get	OS	;						
Set	OS	P1	;					
Answer	0S	P1	;					
Notes	P1: 0 =	Simple	x, 1 = H	ligh, 2 =	Low			

PC Command

PC Sets	or read	s the PA	A Power	· (PWR)) status				
Get	PC	;							
Set	PC	P1	P1	P1	;				
Answer	PC	P1	P1	P1	;				
Notes	P1 = 000 to 100.								

PR Command

PR Reac	ds the S	peech C	ompres	sor (CC	OMP) st	atus (No	on-func	tional)		
Get PR ;										
Answer	PR	P1	;							
Notes	Notes P1 = 0 For HRD compatibility only, does not change radio.									

PS Command

PS Sets	or read	s the Po	wer Bu	tton sta	tus					
Get	PS	;								
Set	PS	P1	;							
Answer	PS	P1	;							
Notes	P1: 0	P1: $0 = \text{Standby}$, $1 = \text{On}$.								

QI Command

QI Set	s the Qui	ck Save	memor	y (QS)						
Get										
Set	QI	;								
Answer										
Notes	QI is v	QI is write-only.								

RC Command

RC Clea	ars the I	RIT freq	uency ((RIT[0]))				
Get									
Set	RC	;							
Answer									
Notes	RC is write-only.								

RD Command

RD Decr	ements	the RIT	Freque	ency							
Get	RD	;									
Set	RD	P1	P1	P1	P1	P1	;				
Answer											
Notes								-	z in CW		
	50 Hz	50 Hz in SSB. P1 (00000 – 99999) will set the RIT Frequency (also see									
	ZZRF)	ZZRF). Answer is always blank or an error message.									

RT Command

RT Sets	or read	s the R	T butto	n statu	S					
Get	RT	;								
Set	RT	P1	;							
Answer	RT	P1	;							
Notes	P1 = 0	P1 = 0 for off, 1 for on.								

RU Command

RU Incre	ements	the RIT	Freque	ency						
Get	RU	;								
Set	RU	P1	P1	P1	P1	P1	•			
Answer										
Notes	RD wi	thout pa	rameters	sincrem	ents the	RIT fre	quency	by 10 H	z in CW	and
	50 Hz	50 Hz in SSB. P1 (00000 – 99999) will set the RIT Frequency (also see								
	ZZRF)	ZZRF). Answer is always blank or an error message.								

RX Command

RX Sets the transceiver to Receive mode (MOX off)										
Get										
Set	RX	;								
Answer										
Notes	RX is	RX is write-only.								



SH Command

SH Sets	or reads	s the vai	iable D	SP Filte	er high t	frequen	cy					
Get	SH	•										
Set	SH	P1	P1	;								
Answer	SH	P1	P1	;								
Notes		Iodes (U		B, CWU	, CWL)	in Hz						
	00	00 = 1400										
	01 = 1600											
		02 = 1800										
		03 = 2000										
		= 2200										
		= 2400										
		= 2600										
		= 2800										
		= 3000										
		= 3400										
		= 4000										
	11	= 5000										
	DSB M	Modes (A	M DSI	R FM I	ORM S	AM DIC	au Dig	H)				
		= 2500	,	J, I 1,1, I	, , ,	11,1, 21	50, 510					
		= 3000										
		= 4000										
		= 5000										
	SH has	s no effe	ct in RT	TY, PS	K, or SP	EC.						

SL Command

SL Sets	or reads	s the va	riable D	SP filte	r low fr	equenc	y						
Get	SL	•											
Set	SL	P1	P1	;									
Answer	SL	P1	P1	;									
Notes	SSB M	SSB Modes (USB, LSB, CWU and CWL) in Hz											
		= 0											
		01 = 50											
		02 = 100											
		03 = 200											
		04 = 300											
		05 = 400											
		= 500											
		= 600											
		= 700											
		= 800 = 900											
		= 1000	1										
	11	_ 1000	,										
	DSB M	Andes (A	M DSI	R FM I	DRM, SA	AM DIC	al DIG	11)					
		= 0	111, 201	3, 1 1,1, 1) i (i) , (j)	111, 1210	SE, DIO	<i>(</i>)					
		= 100											
		= 200											
		= 500											
	SL has	no effec	ct in RT	TY, PSI	K, or SP	EC.							

SM Command

SM Reads the S-Meter											
Get	SM	P1	;								
Set											
Answer	SM	P1	P2	P2	P2	P2	;				
Notes	P1 = 0 for main transceiver.										
	P2 = 0	000 to 0	030 whe	ere 0015	= S9. (Current (code nee	ds impro	ovement	for	
	readings above S9.										
	SM is	read-onl	y.								

SQ Command

SQ Sets or reads the Squelch (SQL) thumbwheel control											
Get	SQ	P1	;								
Set	SQ	P1	P2	P2	P2	;					
Answer	SQ	P1	P2	P2	P2	;					
Notes	P1 = 0 for main transceiver.										
	P2 = 000 to 255 (scaled in software to $0 - 160$, $SQ0127$; = 80 on the control.										

TX Command

TX Sets the transceiver to Transmit mode (MOX on)										
Get										
Set	TX	;								
Answer										
Notes	TX is write-only. Not totally compatible with Kenwood but is modified to maintain compatibility with third-party software.									

UP Command

UP Mov	UP Moves VFO A up by the increment set in step size (ZZSB)										
Get											
Set	UP	;									
Answer											
Notes	UP is v	UP is write-only									

XT Command

XT Sets	XT Sets or reads the XIT status (ZZXS)										
Get	XT	;									
Set	XT	P1	;								
Answer	XT	P1	;								
Notes	P1 = 0	P1 = 0 for off, 1 for on.									