

PM 5390

RF synthesizer

9499 520 08311

831201

1. COMMAND LIST

Header (ASCII)	Parameter (ASCII)	Function, Comments
FC (or F)	1 E5 ... 1019.99E6 or 100 000 ... 1019 990 000	frequency 100 kHz ... 1 019.99 MHz
FD	1E3 ... 99.99 E6	Δ frequency for sweep or manual frequency step sweep: 50 kHz ... 50 MHz freq. increment: 1 kHz ... 99.99 MHz
TS (or T)	.05 ... 20	sweep time 0.05 ... 20 s
LL (or L)	- 127 ... - 7 - 127 ... + 13	level (50 Ω): -127 ... - 7 dBm (PM 5390) - 127 ... + 13 dBm (PM 5390 S)
LR	1 E-7 ... 99 E-3 1 E-7 ... 1.0 E	level (50 Ω): 0.1 μV ... 99 mV (PM 5390) 0.1 μV ... 1.0 V (PM 5390 S)
RL	1 ... 8	load register 1 ... 8
RR	1 ... 8	recall register 1 ... 8
MA	0, 1, 2	AM; 0 = off 1 = internal 2 = external



PHILIPS

COMMAND LIST, cont

Header (ASCII)	Parameter (ASCII)	Function, Comments
MF	0, 1, 2,	FM; 0 = off 1 = internal 2 = external
VN	0, 1	video without sound carrier 0 = off 1 = on
VA	0, 1, 2	video with AM sound carrier 0 = off 1 = on 2 = on, AM external
VF	0, 1, 2	video with FM sound carrier 0 = off 1 = on 2 = on, FM external
SS	—	single sweep on
SC	—	continuous sweep on
\$	—	sweep off

2. COMMAND DELIMITERS

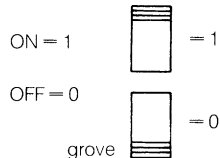
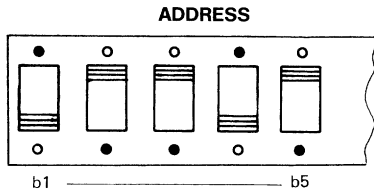
To terminate a single command or a command string the following characters can be used:

ASCII	Hex
ETX	03
LF (NL = New Line)	0A
ETB	17
, (comma)	2C

3. SETTING DEVICE ADDRESS

Example:

Device address 22



value	1	2	4	8	16
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NOTE: The switches are located at the rear of the PM 5390

LISTENER ADDRESSES										
ASCII CHAR	DECIMAL VALUE	DIO BUS							DEVICE ADDRESSES	
		8	7	6	5	4	3	2		1
SP	32	0	0	1	0	0	0	0	0	0
!	33	0	0	1	0	0	0	0	1	1
..	34	0	0	1	0	0	0	1	0	2
#	35	0	0	1	0	0	0	1	1	3
\$	36	0	0	1	0	0	1	0	0	4 *
%	37	0	0	1	0	0	1	0	1	5
&	38	0	0	1	0	0	1	1	0	6
'	39	0	0	1	0	0	1	1	1	7
(40	0	0	1	0	1	0	0	0	8
)	41	0	0	1	0	1	0	0	1	9
*	42	0	0	1	0	1	0	1	0	10
+	43	0	0	1	0	1	0	1	1	11
,	44	0	0	1	0	1	1	0	0	12
-	45	0	0	1	0	1	1	0	1	13
.	46	0	0	1	0	1	1	1	0	14
/	47	0	0	1	0	1	1	1	1	15
0	48	0	0	1	1	0	0	0	0	16
1	49	0	0	1	1	0	0	0	1	17
2	50	0	0	1	1	0	0	1	0	18
3	51	0	0	1	1	0	0	1	1	19
4	52	0	0	1	1	0	1	0	0	20
5	53	0	0	1	1	0	1	0	1	21
6	54	0	0	1	1	0	1	1	0	22
7	55	0	0	1	1	0	1	1	1	23
8	56	0	0	1	1	1	0	0	0	24
9	57	0	0	1	1	1	0	0	1	25
:	58	0	0	1	1	1	0	1	0	26
;	59	0	0	1	1	1	0	1	1	27
<	60	0	0	1	1	1	1	0	0	28
=	61	0	0	1	1	1	1	0	1	29
>	62	0	0	1	1	1	1	1	0	30
?	63	0	0	1	1	1	1	1	1	31

*4 is the factory preset address for PM 5390

BITS		0 0		0 0 1		0 1 0		0 1 1		1 0 0		1 0 1		1 1 0		1 1 1	
B7 B6 B5		CONTROL				NUMBERS SYMBOLS				UPPER CASE				LOWER CASE			
B4 B3 B2 B1		0		20		40		60		100		120		140		160	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		NUL		DLE		SP		0		@		P		'		p	
0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		SOH	GT1	DC1	LLO	!		1		A		Q		a		q	
0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		STX		DC2		"		2		B		R		b		r	
0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		ETX		DC3		#		3		C		S		c		s	
0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		EOT	SDC	DC4	DCL	\$		4		D		T		d		t	
0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
		ENQ	PPC	NAK	PPU	%		5		E		U		e		u	
0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		ACK		SYN		&		6		F		V		f		v	
0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		BEL		ETB		'		7		G		W		g		w	
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		BS	GET	CAN	SPE	(8		H		X		h		x	
1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		HT	TCT	EM	SPD)		9		I		Y		i		y	
1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		LF	A	SUB	2A	*		:		J		Z		j		z	
1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		VT	B	ESC	1B	+		;		K		[k		{	
1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		FF	1C	FS	2C	,		<		L		\		l		 	
1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		CR	15	GS	35	-		=		M]		m		}	
1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		SO	E	RS	1E	.		>		N		^		n		~	
1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		SI	F	US	1F	/		?	UNL	O		_	UNT	o		0	RUBOUT (DEL)
		ADDRESSED COMMANDS				LISTEN ADDRESSES				TALK ADDRESSES				SECONDARY ADDRESSES OR COMMANDS			

KEY octal 25 PPU IEC BUS code
 hex 15 NAK 21 ISO 7-bit character
 decimal