

Power of 2		3	2	1	3	2	1	0	2 ⁿ
Binary No.	Code sums	4	2	1	8	4	2	1	Code sum
Sample numbers shown	0.6	0	0	0	0	1	1	0	6
	1.6	0	0	1	0	1	1	0	16
	2.6	0	1	0	0	1	1	0	26
	3.6	0	1	1	0	1	1	0	36
	4.6	1	0	0	0	1	1	0	46

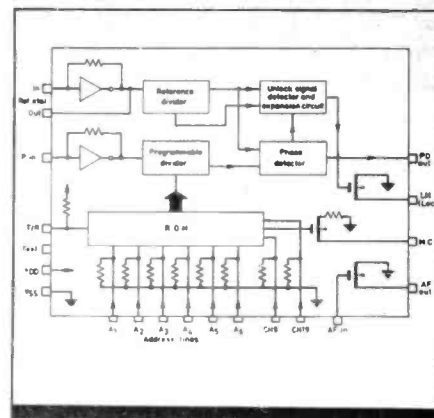
The BCD format shown is a 7 bit code but obviously by using two columns only in the left hand group* a 6 bit code counting 0-1, 10-19, 20-29, and 30-39 could be used ie a total of 40 lines using 0 as a signal line ie absence of all signals or a No.

Many other forms of binary code are in use but the ones shown are most commonly used. The so-called Random Code is a selective code used in certain devices only as a signalling technique rather than a significator technique and is actual-

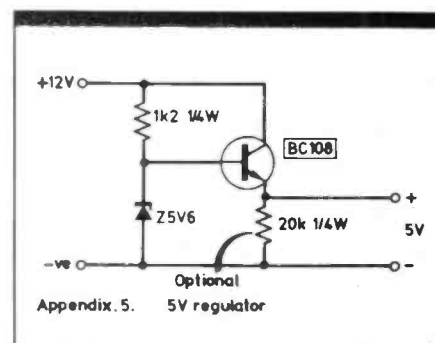
ly only semi random.

From the above it is apparent that signalling is either by an on or off situation and can be effected by simple switching techniques. This is the principle by which the programmed instructions are issued to the phase lock loop devices.

For simplicity of explanation the first table above is shown as reading left to right. It is more conventional to present the table reading right to left as shown in the second table and in Fig. 15.



Appendix 3. Basic block diagram of dedicated device.



Appendix 5. 5V regulator

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