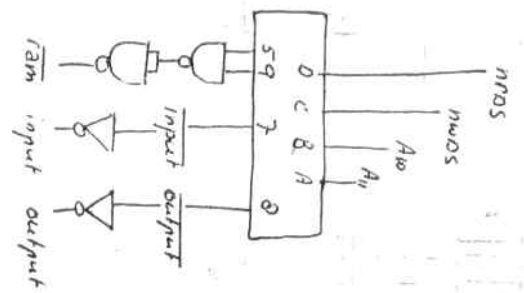


10-6-84. Address decodring. Program no. meter.

	EPROM	RAM	Counters	Outputs
A ₀	A ₀	A ₀	A ₀	D ₀ (A)
A ₁	A ₁	A ₁	A ₁	D ₁ (B)
A ₂	A ₂	A ₂	A ₂	D ₂ (C)
A ₃	A ₃	A ₃		D ₃ (D)
A ₄	A ₄	A ₄		D ₀ (E)
A ₅	A ₅	A ₅		D ₁ (F)
A ₆	A ₆	A ₆		D ₂ (G)
A ₇	A ₇	A ₇		D ₃ (H)
A ₈	A ₈			D ₄ (I)
A ₉	A ₉			
A ₁₀	A ₁₀	0	1	0
A ₁₁	0 (Z)	1	1	0
MWDS	1	1 (Z)	1	0
MWDS	0 (Z)	0	0	1

A	n	0	n
00	0	0	1
01	0	1	0
10	1	0	0
11	1	1	1

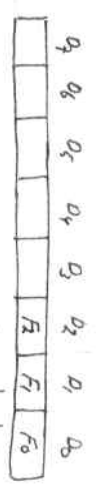


Outputs schynne wdd
 EPROM 7444 - 7477
 RAM 7444 - 7477
 Counters 7444 - 7477



17-6-84 Troepenhe meter testsoftware

$\phi 0 \phi 0$ $\phi 0$ meest linker display no 0
 $\phi 0 \phi 1$ $\phi 1$
 $\phi 0 \phi 2$ $\phi 2$
 $\phi 0 \phi 3$ $\phi 3$
 $\phi 0 \phi 4$ $\phi 4$
 $\phi 0 \phi 5$ $\phi 5$
 $\phi 0 \phi 6$ $\phi 6$
 $\phi 0 \phi 7$ $\phi 7$ meest rechter display no 7
 $\phi 0 \phi 0$ $\phi 0$ counter ϕ



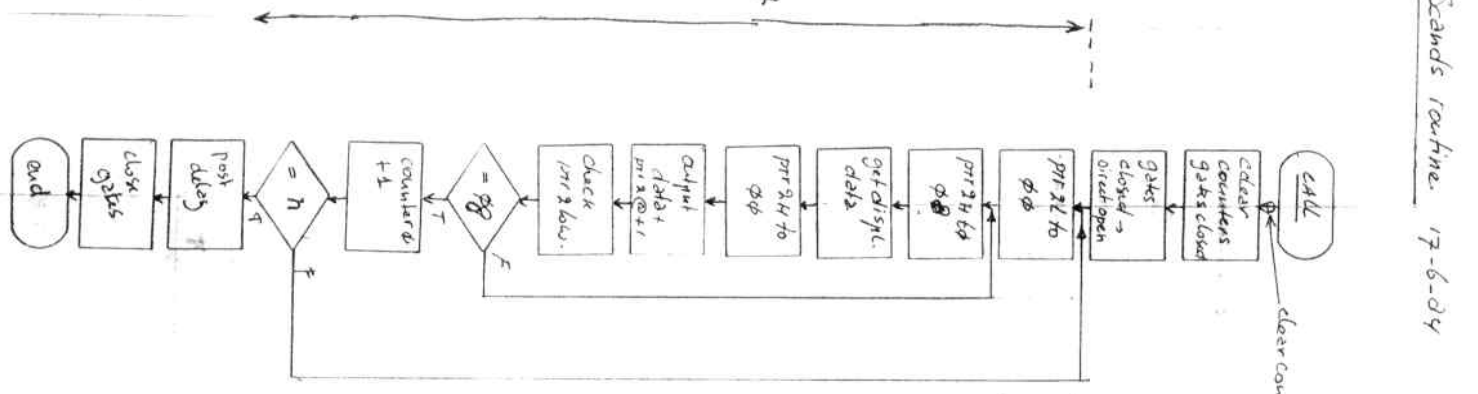
Reset counters
 "1" = reset
 Directgate
 "1" = open
 "0" = dicht
 presalen
 "0" = open
 "1" = dicht

reset gates dicht	1	0	1	$\phi 5$
gates dicht	1	0	0	$\phi 4$
direct gate open	1	1	0	$\phi 6$
presaler gun	0	0	0	$\phi 0$



Sands routine. 17-6-84

$n = n \cdot 61 +$
 $n \Phi - 2$



Address	Instruction	Comments	SD
144	08	PR2 = scratch.	14
141	3F		24
138	04 00 00	clear counter 0	31
135	09 00 00		33
132	04 05	reset + gates	35
129	07	direct	37
126	04 04	gates direct	30
123	07		
120	04 06	gates open	
117	07		
114	04 04	PR2H to phi	10
111	32		8
108	04 00	PR2H to phi	10
105	08 00	get disp. data to Ex	18
102	01		7
99	04 04	PR2H to disp.	18
96	36		8
93	04 01	Ex -> AC to disp.	6
90	0E 01		18
87	04 04	delay.	10
84	0F 04		13 + 3AC + 514 disp
81	32		8
78	01		7
75	04		6
72	32		8
69	04		6
66	E4 03		10
63	9C E7		11
60	A9 00	counter + 1	22

18 delay.

total delay =

$1320 + 16AC + 9AC$
 $4119 \text{ disp} = 111$
 hyd over seen scan 12

total delay
 $n \cdot 61 + n \Phi - 2 +$
 $39 + 2AC + 514 \text{ disp}$

19

total delay $T = n \cdot b_1 + n(1310 + 16AC + 4112 \text{ disp}) + 37 \cdot 18AC^2$

dis $T =$

pass $3579545 / T_c = 51174604 \cdot 5^{-6}$ per 1/2 d.

holding 894886 per.

3rd AC? = 8d (32)

holdtimeover: $894785 = h \cdot b_1 + n(1310 + 16AC + 4112 \text{ disp})$

$n = 50$

$178347 = (1310 + 16AC + 4112 \text{ disp})$

$165247 = 16AC + 4112 \text{ disp}$

disp = 4

$7677 = 16AC$

$AC = 480$

$699 - \text{disp}' = 21$

$AC' = 9300 = 8d$

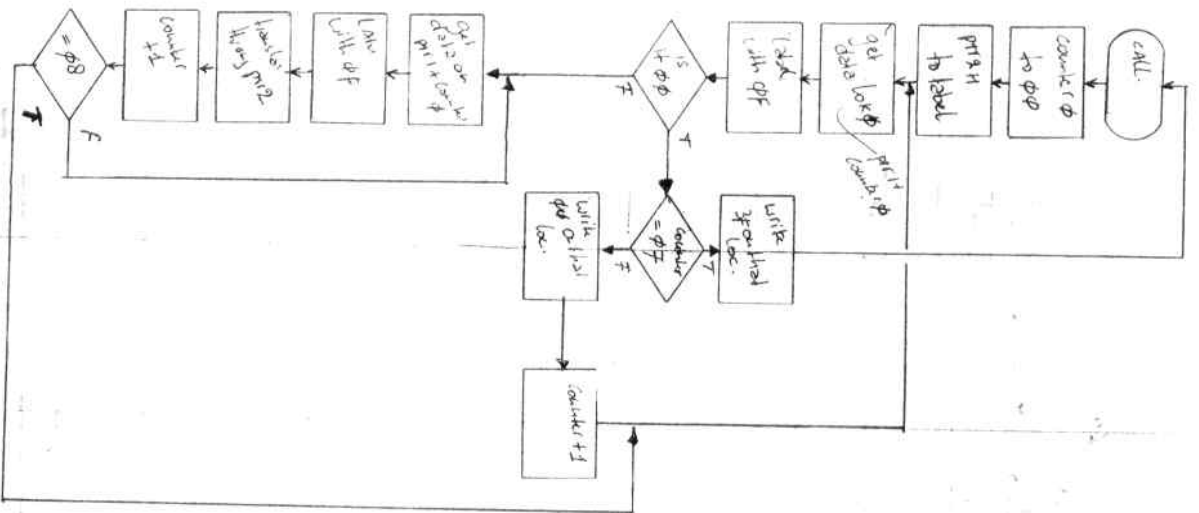
$n = 39_{hex} \quad AC = 84 \quad \text{disp} = 84 \quad \text{disp}' = 81 \quad AC' = 821$

~~50 holdtimeover~~
 ~~$T = 1/50$~~
 ~~$AC = 821$~~
 ~~14090710~~

3241
 596A

21
 821

Routine Format.



φ244	φ8	CALL/return	φ3φφ
φ1	3F		φ1
φ2	84φφ	reset counter	φ2
φ4	89φφ		φ3
φ6	84φ3	PRN to label	φ4
φ8	36	(tabcode φ3φφ)	φ5
φ9	81φφ		φ6
φ6	φ1	get label or x	φ7
φ6	81φφ	PRN + counter	φ8
φE	D4φφ	label φφ	φ9
1φ	9C14	skip if φφ	φA
12		NOT	φB
18	81φ8		φC
14	84φ7		φD
16	9Cφ6	skip if not?	φE
18	843F		φF
1A	893φ		
1C	9φE2	to φφ	
1E	84φφ		
2φ	898φ		
22	A9φ8		
24	9φE3	to x	
26	818φ		
28	D4φF		
2A	32		
2B	82φφ		
2D	893φ		
2F	A9φ8 (31)	φ14φ	
33	E4φ8		
35	9CφE		
37	9φE7		

17-6-84 Regm. Kothu 14pm

~~φ4φφ φ8~~
~~φ1 3E~~
~~φ2 C4φφ~~
~~φ4 39~~
~~φ5 C4φc~~
~~φ7 36~~
~~φ8 C2φφ~~
~~φA φ1 40~~
~~φC φ1 40~~
~~φE φ1 40~~
~~φF C9φ7~~
~~φG 4φ~~
~~φH D4Fφ~~
~~φI 1c 1c 1c 1c~~
~~φJ C9φ3~~
~~φK C2φ1~~
~~φL φ1 4φ~~
~~φM D4φF~~
~~φN C9φ8~~
~~φO 4φ~~
~~φP D4Fφ~~
~~φQ 1c 1c 1c 1c~~
~~φR C9φ2~~
~~φS C2φ2~~
~~φT φ1 40~~
~~φU D4φF~~
~~φV C9φ5~~
~~φW 4φ~~
~~φX D4Fφ~~
~~φY 1c 1c 1c 1c~~
~~φZ C9φ1~~
~~39~~

φ8φφ + φ0 φ1 φ2 φ3 φ4 φ5 φ6 φ7
 φcφφ
 φcφ1
 φcφ2
 φcφ2
 HN
 HN
 HN
 LN
 LN
 LN
 LN

36 ~~φ8~~ C2φ3
 3d ~~φ8~~ φ1 4φ
 3E ~~φ8~~ D4φF
 3F ~~φ8~~ C9φ4
 41 ~~φ8~~ 4φ
 43 ~~φ8~~ D4Fφ
 44 ~~φ8~~ 1c 1c 1c 1c
 46 ~~φ8~~ C9φ4
 4A ~~φ8~~ φφ B82
 4C ~~φ8~~

φφ φ
 φφ φ
 φφ φ