## VALVE ELECTRONIC CV2287

Specification M.O.S./CV.2287.

Issue 1. Dated 20.4.53.

To be read in conjunction with

K1001 ignoring clauses 10 and 11.

Specification

Restricted

Unclassified

## Indicates a change

		- 1:w100000 G 0:0000				
TYPE: Tube, counter, G.M. single en gamma.	<u>Marking</u>					
ENVELOFE: - Glass.  FROTOTYPE: - 20th Century Electronics G1CHE.		As in K1001/4. Additional markings:- Threshold voltage				
EFFECTIVE ANODE LENGTH:- 120 m.m.		in the form V <sub>T</sub> =V				
		PACKING As in K1005				
<u>rating</u>		Note	BASE See page 3.			
Operating volts, $V_W = V_T + 40$ volts. (Average at 20°C.)	380	A	P <b>I</b> N	ELECTRODE		
Plateau length volts. (Average)	120		1 2	Anode Cathode		
Plateau Slope %/volt. (Average)	0.05		<u>DIMENSIONS</u> See page 3.			
Shielded background counts/min. (Average)	35					
Useful life, counts. (Average)	> 10 <sup>9</sup>		Notes:  A. All measurements made with a load resistance of R=4.7x10 <sup>6</sup> ohms.			
Temperature coefficient volts/C <sup>0</sup> . (Average)	0,2					
Temperature coefficient volts/C°. (max).	0.3					
Operating range of temperature C <sup>0</sup> .	-55to+40					
Filling Efficiency, & source. (approx).	100%					
Count rate for 1.0 milli-roentgen/ hr. Radium source. Counts/min.	5600					

## CV2287

## TESTS

To be performed at least 4 weeks after manufacture, in addition to those applicable in K1001.

		in K1001.			
	Test Conditions	Test	Limits		No.
			Min.	Max.	Tested
a	As in K1001/52.3	Plateau length, L volts	90	-	100% or S
	Input sensitivity 0.5 volts	Flateau slope, S5/volt	-	0.15	100% or 3
b	às at (a) above	Threshold voltage $V_{\mathrm{T}}$	300	<b>37</b> 0	100% or 5
C	Input sensitivity 0.5 V, applied voltage V <sub>W</sub> , other conditions as stated in K1001/5E.3.1 and K1001/5E.7.	Shielded background count rate/minute. Limits are irrespective of statistical corrections.	25	50	100% oars
đ	As (c) above.	Saturation current MA.	4.5		T.A.
е	Counter inserted in Neoprene Jacket in Standard atmosphere (15-25°C. Less than 60% relative humidity) Measure at P.D. of 100 volts.	Resistance between pins, ohms.	1010	-	T.A.
ſ	Counter immersed in water (Base upwards) to within 1/2-in. of base.	Resistance between Catnode and outside of envelope, ohms.	10 <sup>9</sup>	-	T.A.
g	See K.113, clause 27(c).	Vibration test. Counter shall be undamaged and operate satisfactorily after this test.			T «A»
h	Counter shall pass satisfactorily the climatic tests specified in K.110 and a further five damp neat cycles.				T.A.

NOTE: All tests shall be made using a counter load resistance of 4.7 x 106 ohms.

