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VALVE ELECTRONIC

CV250

ADMIRALTY SIGNAL ESTABLISHMENT

	Specification AD/CV250/Is Dated: - 3.12.47. To be read in conjunction	SECURITY Specn. Valve Restricted Unclassified								
	TYPE OF VALVE: - Gas filled Photo- Electric Cell.				MARKING See K1001/4					
→	CATHODE: - Caesium on silver or suitable alternative.			<u>BASE</u> B4 See K1001/AIV/D5.1						
·	ENVELOPE: - Glass.			Pin	Elec	trode		7		
	FROTOTYPES:- CMG25; G	1 2 3	Anod Cath	ode						
	RATING	Note		3 4	i	No connection No connection				
	Min. Extinguishing Voltage (V)	100	A		DIMUNSIONS K1004/D1.			*		
	Working Voltage (V)	80-110	В		nsion n. n.	Min. 97.5 24	Max. 107.5 26	ı		
>	Min. Sensitivity (µA/lumen)	50		M m M m	n.	71 - 13	39. -			
				PACKAGING See K1005.				4		

NOTE THE FOLLOWING GENERAL REQUIREMENTS

- A. The extinguishing voltage shall never be less than 20 V above the rated working voltage of the tube.
- B. The working voltage, correct to the nearest 5 V, shall be marked on each individual cell in such a position that it does not interfere with the incident light flux.
- C. The spectral sensitivity shall correspond to the normal published characteristics of a Caesium on Silver Cathode or of an approved alternative cathode.

TESTS
To be performed in addition to those applicable in K1004.

		Test Conditions	Test	Limits Min. Max.		No. Tested	Note		
	a	Suitable light flux to be incident on the cathode. Va = x V (i.e. working voltage).	Sensitivity (puA/lumen)	55	75	100%	1,2		
	ď	Va = xV. Cell shielded from all sources of light.	Ia (µA)	-	0.1	100%			
>	C	Suitable light flux to be incident on the cathode. Increase Va to x + 10 V.	Ia after period of 30 secs. (= y \(\mu \) A say) Ia after further period of 60 secs. (\(\mu \) A)		y + 10/2	100%	1		
•	đ	Cell shielded from all sources of light. Va = x + 10 V.	Ia (µA)		0.2	100%			
	е	Cell shielded from all sources of light. Va = x + 20 V.	Ia (ɲuA)		0.2	100,5			
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NOTES

- 1. A suitable light flux for testing is 0.05 lumen. See also K1004/2.4.
- 2. The working voltage 'x' (also referred to in Notes A and B) is selected by the manufacturer, within the limits 80-110 V, such that the conditions of tests 'a', 'b' and 'c' are fulfilled.
- 3. All of the above tests will be carried out with a load resistance of not less than 0.1 Megohm in the anode circuit.