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VALVE ELECTRONIC CV1473

SECURITY

Electrode

PACKAGING

ADMIRALTY SIGNAL ESTABLISHMENT

PROTOTYPES: --

Specification AD/CV1473/Issue 4.

Dated 3.12.47	7 •	Specn.	Valve			
To be read in	conjunction with K1004.	Restricted	Unclassified			
→ Indicates a change.						
TYPE OF VALVE: - Gas-filled photo-		MARKING				
electric cell.		See K1 001/4.				
CATHODE:-	CATHODE: - Caesium on silver or		BASE			
ENVELOPE: -	approved alternative. Glass.	I	34.			
DDOMOMICOTO:	Grass.	See K1001/A:	IV/D5.1.			

CMG22, GS16 (90 V).

(MA/lumen)

	PARTY AND DESCRIPTION OF THE PARTY OF	AND RESIDENCE OF CHEST AND ADDRESS.	A STATE STORY AND A STATE OF THE STATE OF TH	b		7072040		
RATING				1	Anod	е	Protection of the Control of the Con	
			Note	2	No connection			
		3.000	3	No connection				
				4	Cath	ode		
Min. Extinguishing DIMENSIONS								
Voltage	(V)	100	A	See K1004/Di.				
	• •			Dime	nsion	Min.	Max.	
Working Voltage	(V)	80-110	В	A mm		66.5	72.5	
TOTALING TOTAGE	(•)	00-110		В	mm.	24	26	
				M	mm	43.5	_	
Min. Sensitivity		l		M.	mm		30.5	

NOTE THE FOLLOWING GENERAL REQUIREMENTS

75

N mm

See K1005.

- 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.
- D. An additional anode connection may be made to pin 2 if desired; designers are asked to allow for this optional connection.

TESTS

To be performed in addition to those applicable in K1004.

		m		Limits		No.	
		Test Conditions	Test	Min.	Max.	Tested	Note
	а	Suitable light flux to be incident on cathode. Va = xV (i.e. working voltage).	Sensitivity (µA/lumen)	75	-	100%	1,2
	b	Va = xV. Cell shielded from all sources of light.	Ia (µA)		0.1	100%	1
→	0	Suitable light flux to be incident on the cathode Va = x+10V.	Ia after 30 secs. (=y µA say) Ia after further period of 60 secs. (µA)		y+10%	100%	
*	đ	Shield cell from all sources of light. Va = x+10 V.	Ia (µA)		0.2	100%	
→	6	Shield cell from all sources of light. Va = x+20V.	Ia (μA)		0.2	100%	

NOTES

- 1. A suitable light flux for testing is 0.02 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.