# VALVE ELECTRONIC CVI432

### ADMIRALTY SIGNAL ESTABLISHMENT

AIMITABIT SIGNAL ISTABIISIMENT										
-	Specification AD/CV1432/Issue 5. Dated 3.12.47. To be read in conjunction with K1004.			SECURITY Specn. Valve Restricted Unclassified						
•	→ Indicate					J				
	TYPE OF VALVE:- Gas-filled photo- electric cell.  CATHODE:- Caesium on silver or approved alternative.  ENVELOPE:- Glass, enamelled black except for window.  PROTOTYPES:- CMG8, GS26.			MARKING See K1001/4.  BASE B4 See K1001/AIV/D5.1.						
	RATING		Pin Electrode				]			
	Min. Extinguishing Voltage (V) Working Voltage (V) Min. Sensitivity (µA/lumen) 75	Note A B	1 2 3 4 TC	Anod No co	nnection nnection	Note D)	+			
	NOTE THE FOLLOWING GENERAL REQUIRE	TOP CAP See K1001/AI/D5.								
	never be less than 20 V above rated working voltage of the B. The working voltage, correct t the nearest 5 V, shall be mar	DIMENSIONS See K1004/D1.								
	on each individual cell, in s		Dime	nsion	Min.	Max.				
	a position that it does not interfere with the incident 1 flux.	Amm Bmm Mmm		114 33 69	122.5 35					
	C. The spectral sensitivity shall correspond to the normal published characteristics of a		M'mm N mm		13	41 -				
	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.			PACKAGING See K1005.						

## CV1432

### TESTS

To be performed in addition to those applicable in K1004.

		Test Conditions	Test	Limits Min. Max.		No. Tested	Note	
	а	The cells shall be tested in pairs at Va = 18 V.	Relative sensitivity. (Note sen- sitivity of each cell.)	The sensitivity of the weaker cell shall be not less than 90% of the other.		100%	1	
	Ъ	Suitable light flux to be incident on cathode. Va = xV (i.e. working voltage).	Sensitivity of single cell (µA/lumen)	75	<b>~</b>	10%	2, 1	
	C	Va = xV. Cell shielded from all sources of light.	Ia (μA)		0.1	100%		
*	đ	Suitable light flux to be incident on cathode. Va = x + 10 V.	Ia after 30 secs. (=y µA say) Ia after further period of 60 secs.(µA)		y+10%	100%	1	
>	•	Cell shielded from all sources of light. Va = x + 10 V.	Ia (µA)		0.2	100%		
>	f	Cell shielded from all sources of light. Va = x + 20 V.	Ia (puA)		0.2	100%		
-	Momeo							

#### NOTES

- 1. A suitable light flux for testing is 0.04 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 M . in the anode circuit.