## VALVE ELECTRONIC CV1432

## ADMIRALTY SIGNAL ESTABLISHMENT

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I	Specification AD/CV1432/Issue 5.			SECURITY								
Ì	Dated 3.12.47.			Specn. Valve Restricted Unclassified								
Į	To be read in conjunction with K10	W.	Kest	ricted	I uncre	ssified	J					
_	-> Indicates a change.											
	TYPE OF VALVE: - Gas-filled photo-	MARKING										
1	electric cell.  Caesium on silver or approved alternative.  ENVELOPE:- Glass, enamelled black except for window.  PROTOTYPES:- CMG8, GS26.			200 Mileston Water processing process								
۱'				See K1001/4.								
				BASE								
1				B4_								
				See K1001/AIV/D5.1.								
	RATING	CANALIS OF THE SECOND	Pin Electrode									
	International Control of Control	Note	1	Anode			1					
١	Min. Extinguishing		2				accumpance of					
1	Voltage (V) 100	A			•	Note D)						
١	Working Voltage (V) 80-100	В	3	No connection No connection								
	Min. Sensitivity		4 TC	No co		1	4					
1	(µA/lumen) 75			TO Satiloge								
	NOTE THE FOLLOWING GENERAL REQUIRE	TOP CAP.										
	A. The extinguishing voltage shal	1	See K1001/AI/D5.				The second					
	never be less than 20 V above											
	rated working voltage of the tube.			DIMENSIONS								
	B. The working voltage, correct t	See K1004/D1.										
	the nearest 5 V, shall be mar on each individual cell, in s	Dime	nsion	Min.	Max.	1						
ı	a position that it does not	0011					1					
	interfere with the incident 1	ight	Ì	mm	114	122.5						
ı	flux.	B mm M mm		<b>33</b> 69	35							
	C. The spectral sensitivity shall		M'mm N'mm		- -	41						
ı	correspond to the normal pub-				13							
	lished characteristics of a						- Andrew					
	caesium on silver cathode, or	PACKAGING				N. Company						
	an approved alternative catho					€						
	D. An additional anode connection											
	be made to pin 2 if desired;	See	K1 005.									
į	designers are asked to allow											
į	this optional connection.		<u> </u>									

## CVI432

## TESTS

To be performed in addition to those applicable in K1004.

		Test Conditions	Test	Lir Xin,	uits Max.	No. Tested	Note			
	a	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			
	р	Suitable light flux to be incident on cathode. Va = xV (i.e. working voltage).	Sensitivity of single cell (uA/lumen)	75	•••	100%	2ر 1			
	С	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			
*	8	Cell shielded from all sources of light.  Va = x + 10 V.	Ia (puA)		0.2	100%				
*	f.	Cell shielded from all sources of light. Va = x + 20 V.	Ia (µA)		0.2	100%				
	NOTES									
<b>→</b> →	2.	<ul> <li>A suitable light flux for testing is 0.04 lumen. See also K1004/2.4.</li> <li>The working voltage 'x' (also referred to in Notes A and B) selected by the manufacturer, within the limits 80-110 V, a that the conditions of tests 'a', 'b' and 'c' are fulfilled</li> </ul>								
İ	<b>3.</b>	All of the above tests will be carried out with a load resistance of not less than 0.1 M.O. in the anode circuit.								