

# WP810-25

## Anode/Screen Single MCP Power Supply

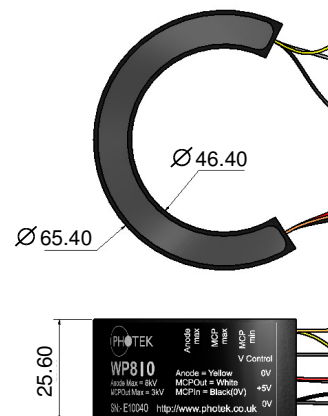
The WP810 module is a +5V input, 8000V, 1000V dual output power supply designed to supply an image intensifier tube in grounded “MCP In” mode.

This unit requires an external +5V/300mA d.c. power supply. This unit would normally be used in conjunction with a cathode gate module such as Photeks GM10-50 or GM200-3.

The MCP voltage is a nominal value between 100V and 1400V which is user adjustable with a minimum resistance of 10Mohm. The MCP maximum must be pre-set while the voltage control input is at 5V. The MCP minimum must be pre-set when the voltage control input is at 0V. MCP max must be adjusted before MCP min. The MCP Out voltage will then be remotely adjustable via the Voltage Control input between the pre-set limits.

The Anode/Screen output voltage is a nominal value between 1000V and 8000V (wrt MCPOut) and may be pre-set to any voltage within this range. The Anode/Screen floats on top of the MCP Out and tracks any voltage control adjustments made to the MCP.

WP810 PSU Connections	
Inputs	
Red	+5V
Black	0V
Orange	Voltage Control
Outputs	
Yellow	Screen
White	MCP Out
Black	MCP In



Electrical Specifications		Mechanical Specifications	
Supply Voltage	5V D.C. ±5% (5.5V Absolute Maximum)	External Diameter	65.4mm
Supply Current (max)	300mA	Inner Diameter	46.4mm
MCP O/P Voltage Max.	>1000V	Height	25.6mm
Anode O/P Voltage Max.	>8000V	Annular Length	250°
		Weight	<45g
Wire Specifications		Operating Temperature Range	
Teledyne Reynolds Micro-Flex	18kV	Minimum	0°C
Wire Length ( PTFE awg28)	>200mm	Maximum	50°C

© Photek Ltd. August 2011

Any unauthorised adjustment or modification to this unit will void all warranties and will only be supported at Photeks discretion.

Photek reserves the right to amend general information contained in this manual without prior notice.

User Manual	UMWP810-25
Issue:	1
Date:	4-8-2011
Author:	P Simpson