

## *Phosphorescence O<sub>2</sub> Measurement System*

The Windows compatible software included with the PMOD-1000 and PMOD-2000 systems is used to configure the systems parameters and to display and store the measurement frequency, signal amplitude, phase, and time of measurement as well as the oxygen pressure. The time course of phosphorescence lifetime or oxygen pressure can be continuously plotted on screen as the data are taken. All of the displayed signal parameters can be saved to named files for further analysis etc. The files are in ASCII and are easily read by other programs such as Excel®, Sigma Plot®, etc. Systems come complete with a 6 mm OD bifurcated optical fiber cable. Other optical fiber configurations are also available, please call our technical sales department for additional information.

**Computer Requirements:** The operating software is for Microsoft Windows (95, 98, and NT) environment on an IBM compatible microcomputer. The computer and phosphorometer communicate by standard RS-232 serial port. The computer display must have a minimum screen resolution of 1024 x 768.

### Specifications

<b>Detection Range</b>	Air Saturation to < 0.1 Torr
<b>Sensitivity</b>	1 part in 10 <sup>3</sup>
<b>Temporal Resolution</b>	Minimum 20 msec with measurements repeatable each 1.2 sec
<b>Temperature Dependence</b>	Approximately 3% per °C
<b>Power</b>	Wall Transformer 100/230 VAC, 50/60 Hz
<b>Dimensions:</b>	
<b>PMOD-1000</b>	27.9 x 19.7 x 7.6 cm (11 x 7.75 x 3 in)
<b>PMOD-2000</b>	26 x 33.7 x 14 cm (10.25 x 13.25 x 5.5 in)
<b>Weight:</b>	
<b>PMOD-1000</b>	1.4 kg (3 lbs)
<b>PMOD-2000</b>	5 kg (11 lbs)

<b>Catalog No.</b>	<b>Product</b>
CGS 8027.75	PMOD-1000 Phosphorescence Oxygen Measurement System, 115 VAC, 60 Hz
CGS 8028.75	PMOD-1000 Phosphorescence Oxygen Measurement System, 230 VAC, 50 Hz
CGS 8029.75	PMOD-2000 Phosphorescence Oxygen Measurement System
CGS 8030.75	Cool Color Lamp, Amber (592 nm maximal intensity), 115 VAC, 60 Hz
CGS 8031.75	Cool Color Lamp, Amber (592 nm maximal intensity), 230 VAC, 50 Hz
CGS 8032.75	Cool Color Lamp, Red (638 nm maximal intensity), 115 VAC, 60 Hz
CGS 8033.75	Cool Color Lamp, Red (638 nm maximal intensity), 230 VAC, 50 Hz
CGS 8034.75	Cool Color Lamp, Green (524 nm maximal intensity), 115 VAC, 60 Hz
CGS 8035.75	Cool Color Lamp, Green (524 nm maximal intensity), 230 VAC, 50 Hz
CGS 8036.75	Phosphor, Pd-meso-tetra (4-carboxyphenyl) porphyrin, 1 gm vial
CGS 8037.75	Lyophilized Porphyrin Kit
CGS 8038.75	Phosphor, Pd-meso-tetra (4-carboxyphenyl) porphyrin dendrimer, 1 gm vial
CGS 8039.75	Phosphor, Pd-tetra (4-carboxyphenyl) tetrabenzoporphyrin dendrimer