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Find the *Harvard Apparatus / Hugo Sachs 603 OPPM* at our website: *Click HERE*



Oxygen Partial Pressure Module

The Oxygen Partial Pressure Module OPPM is a polarographic amplifier for the PLUGSYS system. It is used to measure oxygen concentrations with CLARK-style electrodes. The main application is recording of pO2 concentrations in biological fluids e.g. perfusate or effluate of isolated perfused organs, using the corresponding electrodes e.g. Mini Oxygen Electrode Type 733 or ZABS Flow-Through O2 Chemosensor. The digital display indicates either electrode polarization voltage, O2 concentration as percent or mmHg or the electrode current.

Full Description

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The input circuit of the module includes an isolation amplifier (potential separation between sensing electrode and circuit ground of the PLUGSYS measuring system) to avoid measurement problems due to ground loops and leakage currents.

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Specifications

Specifications	**730210**
Accuracy of Amplifier	±1% (total accuracy depending on electrode)
Analog Output	For simultaneous recording, using BNC connector on front panel (±10 V, output impedance 100 ?); output voltage also available on PLUGSYS bus system; signal output is assigned to internal connecting lines AV-1 to AV-16 through jumper
Connector	DIN 41612, 96-pin VG
Digital Display	3-1/2 digit LED display displays O2 concentration in ranges 0 to 199.9% or 0 to 1999 mmHg; electrode current in range of 0 to 1.999 (ampere multiplied with gain factor) or polarization voltage in range from -1.000 V to +1.000 V can also be displayed
Gain Adjustment	Input current ranges for electrode currents: 10-6A, 10-7A, 10-8A, 10-9A, 10-10A full scale
Gain Fine	For fine adjustment of gain
Input	Floating single-ended input, max. isolated barrier internally clamped to 300 V
Input Connector	Isolated BNC
Linearity of Amplifier	±0.5%
PLUGSYS Width*	2 slot units
Polarization Voltage	Adjustable with trimmer between -1 and +1 V
Power Supply	+ 5 V/450 mA
Resolution	±One least significant digit
Simulation	Two physiological pO2 values can be simulated for calibrating recording output; this gives advantage of easy calibration procedure for connected chart recorder or data acquisition system
Zero Adjustment	Coarse zero current ranges: 10-8A, 10-9A, 10-10A, 10-11A, 10-12A
Zero Fine	Fine adjustment for zero current

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