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TECHNOLOGY GROUP

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Find the *Agilent / PXIT PX2000-305* at our website: *Click HERE*

www.pxit.com
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Laser Source / Measure Module

PX Instrument Technology
Sensible Solutions

Model Number: PX2000-305

General:

The PX2000-305 is a high performance programmable constant current source and voltage measurement unit compatible with the PXI format. A compliance voltage can be programmed to prevent voltage excursions outside programmed limits. It includes PXIT's patented 'Sequence Engine' technology and on board memory thus allowing it to independently synchronise and communicate with other modules in PXIT's Photonic range. The PX2000-305 can be used In conjunction with other PXIT photonics modules such as the PX2000-306 Dual Optical Power Meter for the test and characterisation of tuneable laser diodes.

Features

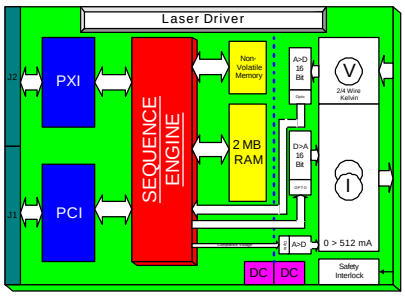
- Integrate on a master slave basis with other 305's or other PXIT Photonics Cards.
- High Speed Real Time Sequence Engine– >5000 current steps per Second.
- Fully floating output allowing 'star ground' connections for multiple units.
- 2MB on board memory for data storage and sequence instructions.
- Voltage measurement with 'Kelvin' connection.
- 16-bit stimulus and measure.
- Compliance voltage programmable from 0 to 8V.
- Small footprint / PXI Modular Architecture.
- Calibration data stored in on-board NV Ram.



Typical Applications:

- Laser Diode Test (LIV) of DFB's and VCSEL's
- Tuneable Laser Test using multiple cards
- Light Emitting Diodes
- Signal Diode DC Test





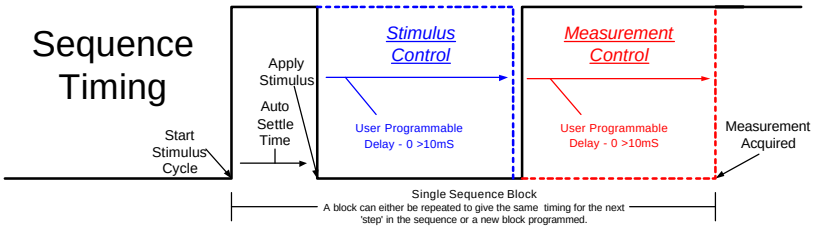
Software for Windows 98, ME, NT & 2000

PX Panel Panel Suite allows real time control of all OPM functions for "bench-top instrument" use.

Drivers Drivers are available for VISA®, LabVIEW® and LabWindows/CVI®. Additional support is provided for TestStand®, Visual Basic ®, C and C++ through documented DLL's and example programs.

PXInstall Our install wizard gets you up and running in minutes !

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Specification

Parameter	Constant Current Source
Current Range	250 / 500mA (PX2000 -305), 20/ 100mA (PX2000 -305L)
Accuracy	±0.05%
Basic Resolution	16 bits : 4uA / 8uA (PX2000 -305), 0.4uA / 1.6uA (PX2000 -305L)
Compliance Voltage	0 - 8V
Compliance Voltage Accuracy	±0.1% ±40mV
Output Slew Rate	20mA/µs (Δ<100mA)
Front panel safety interlock	2 contacts must be closed for output to be on. Multiple interlocks can be connected in parallel.
DC Voltage Measurement	
Voltage Range	0 - ±10V
Accuracy	0.1% ±2mV
General	
Stimuli & Measurements Rate	>5000 per Second
Connector Interface	4mm sockets for current out. 9 pin 'D -type' for all other
Form Factor	3U PXI – single slot width
Trigger	Local Bus and Trigger Bus + front panel access
Front Panel Indication	Single LED – 'Green' indicates all 'OK' 'Red' indicates 'over current' or 'over voltage' condition.
Sequence Engine Specifications	
Master Clock	20MHz
Min Step	25uS
Max Step	10mS
Max Memory Blocks	100,000 Each new block describes a change in the basic sequence timing
Max steps in a single sequence / burst	500,000
Memory	2 Mbyte

Ordering Information

PX2000-305 **Source Measure Module** 250/500mA

PX2000-305L **Source Measure Module** 20/100mA

ISO 9001:1994 Approved
Cert. No. 5057

PXI Systems Alliance

PICMG PCI INDUSTRIAL COMPUTERS

NATIONAL INSTRUMENTS Alliance MEMBER

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