CELL

LCD-7400C

High Accuracy 4CH LD/PD Controller



OVER VIEW

LD/PD controller LCD-7400C is a digital LD controller of 4CH that controls up to 4 LD modules independently and can be measured with high accuracy.

Furthermore, LD current, PD reverse bias voltage or EA voltage of each channel executes sweep by any step width with interlocking an external measuring instrument, and it can save measured values of current and voltage of each terminal to embedded memory.

As interface, GPIB and RS-232C is equipped and can perform various setting, monitoring of measurement value and the acquisition of sweep data by remote command.

FEATURE

- 1. LCD-7400C controls 4CH of LD, TEC, PD, EA (Electro-absorption modulator) independently and can be measured each terminal of current and voltage with high accuracy.
- 2. LD performs high precision control using ACC(Auto Current Control) or APC(Auto Power Control).
- 3. ATC(Temperature Control) provide high stability control using PID with auto-tuning function.
- 4. Each control circuit is insulated and can be equivalent to the LD module that any terminal was connected to common.
- 5. GPIB and RS-232C is equipped, so performs remote control flexible.
- 6. LCD-7400C can perform I-L measurement that 4CH synchronized in conjunction with the external measuring instruments such as optical power meter speedily.
- 7. Because it is compact size that is 19 inches of rack half 3U size, the system construction with space-saving is possible.

APPLICATION

This is the most suitable for the characteristic inspection and evaluation of the various modulation modules, for example TOSA (Transmitter Optical Sub-Assembly), ROSA (Receiver Optical Sub-Assembly), VOA (Variable Optical Attenuator).

SPECIFICATIONS

	ACC/APC Control Unit Control Channel Control Method Control Range Control Accuracy Setting Ability Control Cycle	4ch Digital PI Control (A0 0∼300mA ±100uA 10uA 50msec (min)	CC: Auto Cu	irrent Contr	ol /APC: Au	to Power C	ontrol)
2.	ATC Control Unit Control Channel Control Method Applicable Temperature Sensor Temperature Control Range Control Accuracy Setting Ability Control Cycle Auto-tuning Function	4ch Digital PID Control Thermistor -15.0~+120.0°C ±0.03°C (except sen 0.01°C 50msec (min)	sor accurad		%Changea %Changea	ble PID par ble R25/B o	rameter constant
3.	Driving Unit LD Forward Current TEC Current EA Voltage PD Reverse Bias Voltage	Driving Method Sink constant current Bipolar constant curre Bipolar constant volta Unipolar constant volt	ent ge	tage Range 0~5V ±5V ±5V 0~5.9V		0~300mA ±1.9A ±250mA	rrent Range perimposed voltage only
4.	Measurement Unit LD Forward Current LD Forward Voltage PD Current(Range1) PD Current(Range2) PD Current(Range3) PD Reverse Bias Voltage EA Current EA Voltage TEC Current TEC Voltage Thermistor Temperature Thermistor Resistance	Measurement Range $0 \sim 310 \text{mA}$ $0 \sim 6 \text{V}$ $0 \sim 1.2 \text{uA}$ $0 \sim 120 \text{uA}$ $0 \sim 120 \text{uA}$ $0 \sim 11 \text{mA}$ $0 \sim 6.5 \text{V}$ $\pm 255 \text{mA}$ $\pm 6 \text{V}$ $\pm 2.0 \text{A}$ $\pm 6 \text{V}$ $-25 \sim 125^{\circ} \text{C}$ $50 \sim 400 \text{k} \Omega$	Resolution 1uA 10uV 10pA 1nA 10nA 10uV 1uA 10uV 10u A 10u V 0.001°C 0.01 Ω		± Accuracy 100uA 1mV 1nA 10nA 1uA 1mV 100uA 1mV 1mA 1mV 0.03°C 0.3Ω	/	
5.	Display- Setting Display Setting Switch	6 digit 2 line segment Illuminated tactile swi					
;	synchronization is selectable.	ion is 9 items as LD forward current, LD forward			 ※Individual/Interlock selectable ※Trigger interlock with outside measuring instrument ※Maximum 7000 points x 4CH erse bias voltage, EA voltage or external trigger input roltage, PD current, PD reverse bias voltage, EA current, 		
7.	Interface GPIB RS-232C	1 port IEEE488 1 port DSUB 9pin male、cross connection ※Communication speed can be switched from bps of 19.2K/38.4K/115.2K					
8.	Input and Output Terminal Input and Output Of The Module Input and Output Of PD Input and Output Of Trigger Interlock	4 port DSUB 15pin F 4 port Triaxial Femal 2 port BNC (TTL Inpu 1 port DSUB 9pin Fem	e t/Output)		<pre>%Attached %Not attack</pre>	triaxial cable ned BNC ca	ld cable x4(2m single cut) e x4 (2m single cut) ble ease connector x1
9.	Protect Function Warning Alarm	LD·TEC·EA Current limit, PD·EA Voltage limit					
10	D. General Specification Operating Temperature Range Power Input Dimensions	0~40°C AC85V~250V 50/60Hz 300VA and under (Fuse T5A) 210(W) × 125(H) × 420(D)mm (Except Protrusion) ※19inches half rack、3U * Specifications and design are subject to change without notice.					
Ma	nufacturer			istributo			
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