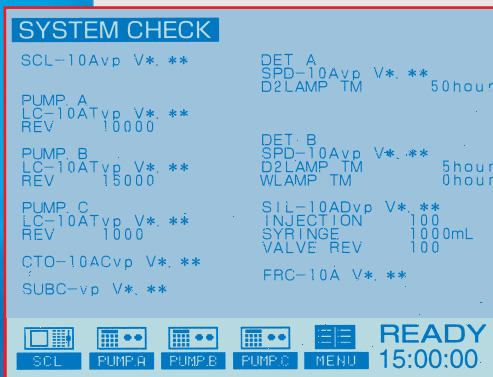


SCL-10A_{VP}

System Controller for Shimadzu VP Series HPLC System

Command all VP Series components centrally with Shimadzu's SCL-10A_{VP} System Controller. The SCL-10A_{VP} conveniently links all VP Series modules via fiber optic interfacing for easy "plug-and-play" setup, and is backward compatible with previous Shimadzu systems. Single point control allows user-friendly operation from the controller's easy-to-read, menu-driven display screens. For unmatched control capability, pair the SCL-10A_{VP} with Shimadzu's powerful CLASS-VP™ chromatography software.



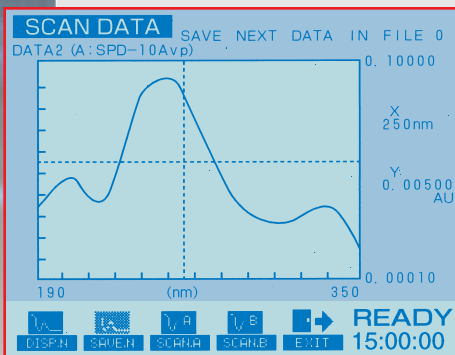
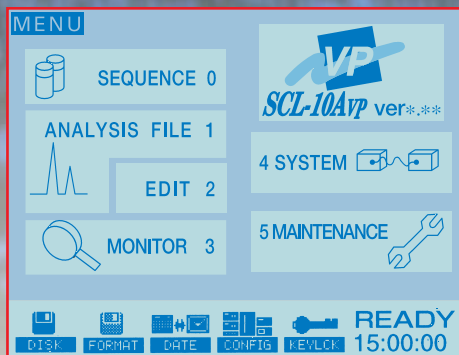
GLP/GMP compliance

Built-in validation support functions help you comply with GLP/GMP regulations. A record of each module's operation is preserved and can be reviewed on-screen.



Transfer and store methods

Save method parameters to the built-in 3.5" disk drive for reference and for secure transfer to other VP Series HPLC Systems. ROM version updates are downloaded from disk for easy upgradeability.



User-friendly interface

Large, easy-to-read characters, icons and user-selectable display menus simplify system operation for novice and advanced users.

Flow rates, gradient programs, chromatograms, and wavelength scan data (from the SPD-10A_{VP} and 10A_{VP}) are displayed on-screen for easy graphical parameter determination and setup.



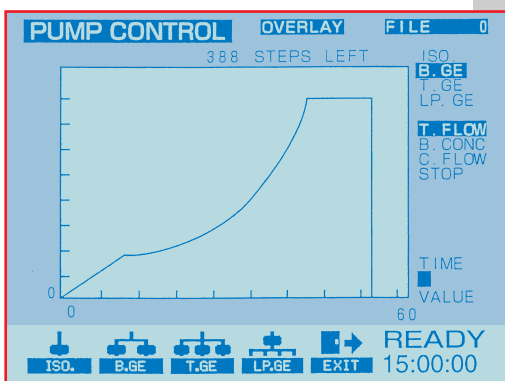
SCL-10AvP System Controller

Advanced operation

Function keys and detailed help information (with valid parameter ranges) streamline parameter setup and instrument operation.

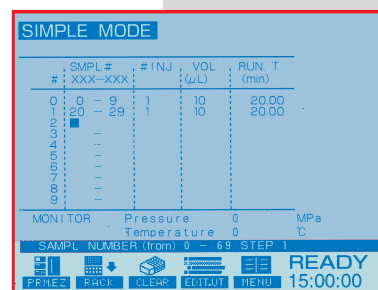
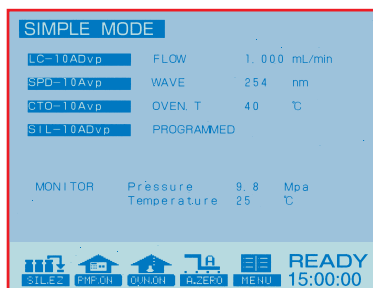
Time programs are easily created for precise component control.

The graphical user interface rapidly creates and edits gradient curves for VP Series solvent delivery units (LC-10ADvP and 10ATvP).



Simple mode for routine analyses

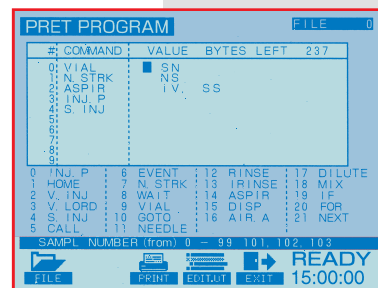
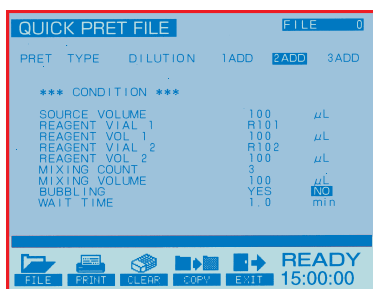
Operate your isocratic system with a simplified parameter setup. Enter pump flow rate, detector wavelength, column oven temperature and autoinjector batch schedule parameters.



Advanced mode for full control

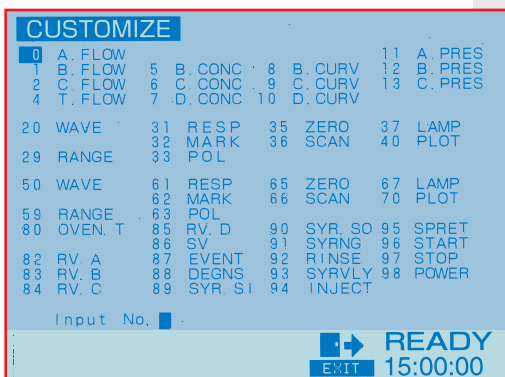
The SCL-10AvP's advanced mode accesses full VP Series capability. All operational parameters are controlled by the SCL-10AvP.

For autoinjector pretreatment programming, select either simple mode (Quick-pret) or full mode (Pret-prog).



Custom display

For fast, easy operation, tailor the menu options to your requirements.



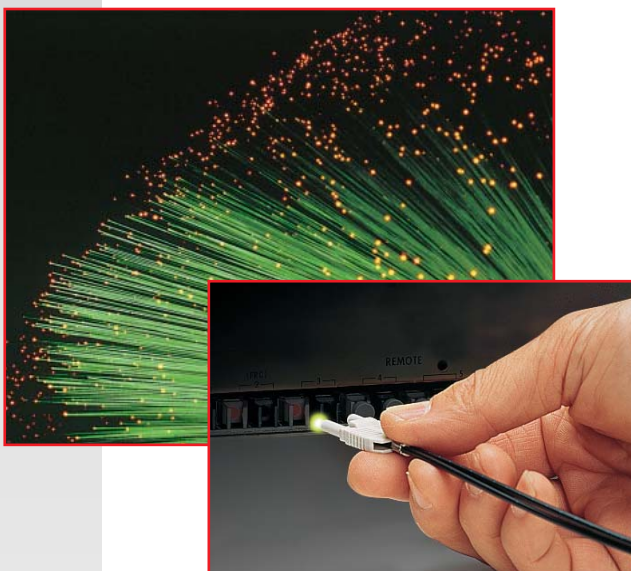
Display
Large backlit LCD display with easy-to-read characters and icons

Status Indicators
Indicate operational modes and status

Operation Keypad
For entering parameter values

Function Keys
Access the functions of individual screens

Floppy Disk Drive
For method storage and secure transfer to other VP Series HPLC Systems



Advanced fiber optic communication

Each component of the LC-10A_{VP} Series is connected to the system controller by fiber optic interface. This low noise, high-speed mode of data transmission enhances the reliability and sensitivity of the HPLC system. An optional SCSI interface allows multiple VP Series HPLC Systems to be linked.



CLASS-VP™ workstation interface

Digital signals from VP Series detectors are rapidly transmitted from the SCL-10A_{VP} to the CLASS-VP Chromatography Workstation by standard RS-232C interface. Analog signals from other manufacturers' detectors can be converted to digital by the SCL-10A_{VP} (option).

The **VP Series Means** Validation and Productivity

Specifications: SCL-10AvP (Cat. No. 228-34350-xx)

Display	Backlit LCD display (320 × 240 dots)	Autoinjector sequence file or analysis sequence file	102 steps
Floppy Disk Drive	Double sided high density track, Disk: 2HD	Autoinjector Sample Pretreatment file	20 files, 250 byte/file
Input/Output Terminals	External start input (MAN. INJ. in): 1	(Solvent delivery unit control)	Isocratic, High pressure gradient, Low pressure gradient, Constant pressure delivery Flow rate, Pressure, Concentration, Max. pressure, Min. pressure, Linear, Step, Exponential function (all multi-level)
	Error input (ALARM IN): 3	Control mode	
	Output (EVENT1,2,3,4): 4	Selectable parameters	
	External power switch control (AC REMOTE): 1	Gradient profile	
Possible Component Connection	Optical Link (OPT LINK): 1 (for Chromatopac)	(Autoinjector control)	Sample injection volume, No. of repetitions of analyses, Analysis time or analysis file No., Sample pretreatment file No., Fraction collector file No.
	RS-232C: 1 (for PC)	Selectable Parameters	
	Remote Signal: 8 (for LC-10AvP/10A module control)	(Column oven control)	Oven temperature
	Solvent delivery unit: max. 3	Selectable Parameters	Maximum temperature
	Autoinjector: 1	(Detector control)	Detection wavelength, Range, Time constant, Lamp switching, Wavelength scanning conditions, etc.
	Column Oven: 1	(Fraction collector control)	Scan parameters, Peak detection parameters, Analytical conditions, etc.
	Detectors: max. 2	Selectable Parameters	Memory check, Max./Min. Pressure limits, Oven temperature upper limit, Lamp current, Motor rotation, etc., abnormality check
	Fraction Collector: 1	Self diagnostics, Safety features	
(Parameter setting files)	Sub-controller or valve interface: 1	Dimensions, weight	260W × 420D × 140Hmm, approx. 6kg
Analysis file	2 or 6 position valve: 2 (via Sub-controller or valve interface)	Ambient temperature range	4~35°C
Time program	Solenoid valve unit: 1 (via Sub-controller or solvent delivery unit)	Power requirements	228-34350-91 100~120V, 320VA, 50/60Hz
Fraction collector file	He degassing unit: (via Sub-controller or solvent delivery unit)		228-34350-92 100~120V, 320VA, 50/60Hz
Time program			228-34350-38 220~240V, 320VA, 50/60Hz

Options for SCL-10AvP

SCSI option	For communication with PC via SCSI interface.	228-34359-91
Expansion Board, PC-4	Provides 4 additional fiber optic ports.	228-23517-91
A/D Board, PC-55N	To acquire one detector analog signal. Max 2 boards can be installed.	223-04202-91
RS-232C/Optical Link Interface, PC-56N	Serial communication port to Chromatopac via RS-232C cable or via Optical fiber cable. Requires a cable separately.	223-02983-91



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