

Remote Programming Switching Mode DC Regulated Power Supply

SDP - 2210 / 2405 / 2603

Description

This is a series of cost effective Switching Mode programmable power supplies with full remote programming and data logging functionality.

A programmable cyclic sequence of up to 20 sets of operational periods, voltage, & limiting current level can be set at the unit's keypad or by remote PC (Personal Computer) interface.

Groups of control settings and cyclic sequence can be stored in the PC and input to selected power supply via RS232/RS485.

With our supplied software, all the collected data of output voltage & current from each power supplies during operation can be stored as XLS (Excel™) file format in the PC.

When using RS-485, one personal computer can control and data log as many as 31 power supplies of different models of the same series.

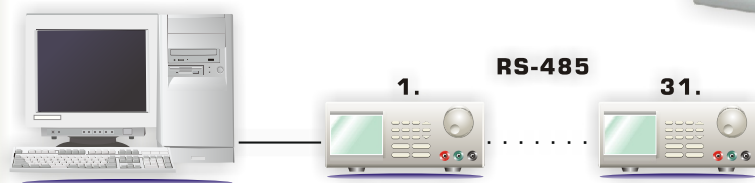
In addition to our supplied software, Command Sets and Labview® driver are supplied with the unit so that users can integrate with their own software.

In the stand alone operation, the informative LCD display guides users for various functions such as preset output, programmable cyclic sequence operation.

In addition to the tracking OVP (Over output Voltage Protection), there is an upper output voltage limit which prevents voltage setting over the preset limit.

The output upper voltage limit is user preset.

This feature prevents damage to voltage sensitive load.



Main Features

- Full remote programming and data logging.
- Local or remote programmable cyclic run up to 20 sets of V, I, operational period.
- Built in RS-232/485 interface which controls up to 31 units.
- Supplied with software, command sets and Labview® driver.
- 9 user preset outputs at keypad
- CC & CV indicators with auto-cross over.
- 4 digit ammeter, voltmeter and power meter display.
- Tracking OVP and user preset max. output voltage.

Typical Applications

R&D works, Quality control, Production especially in applications which require groups of different settings of output voltage, current limit levels for various cyclic operation period and records of outputs readings with dynamic loading during tests.

It is ideal for applications with multiple power supplies at various locations with one centralized PC control.



Specifications

| | SDP - 2210 | SDP - 2405 | SDP - 2603 |
|-----------------------------------|--|------------|------------|
| Output Voltage | 1 - 20Vdc | 1 - 40Vdc | 1 - 60Vdc |
| Output Current | 0 - 10A | 0 - 5A | 0 - 3A |
| Output Rated Power | 200W | | |
| Ripple & Noise (Peak to Peak) | 30mV p-p | | |
| Load Regulation | 300mV | 200mV | 150mV |
| Line Regulation | 10mV | | |
| Input Voltage | 100 - 240Vac , 50Hz~ / 60Hz~ | | |
| Input Power | 285W | | |
| Power Factor | ≥0.9 | | |
| Display Meter | 4 digits - Display LCD Ammeter, Voltmeter and Power meter | | |
| Meter Accuracy | (±1% + 5 counts for range V<5V , I<0.5A) (±1% + 2 counts for range V ≥5V , I ≥0.5A) | | |
| LCD Dimension | 48 x 66mm | | |
| Cooling System | Thermostatic Control Fan | | |
| Operating Temperature | 0 - 40°C | | |
| Protections | Tracking OVP (Over Voltage Protection), Current Limiting, Over Temp. Protection | | |
| Approvals | CE EMC : EN 55011 , LVD : EN 61010 | | |
| Dimensions (WxHxD) | 193 x 98 x 215mm / 7.6 x 3.9 x 8.5inch | | |
| Weight | 3kgs / 6.6lbs | | |
| Accessories | User Manual, Application Software for Windows®, Labview® Driver, VB Driver, Command Set, RS-232 Cable, RS-485, Connector and one 120ohm Resistor | | |
| Optional Accessory | RS-232 to RS-485 Adapter (ATR-2485) | | |
| Remark | Adjustable Upper Voltage Limit, Power Factor Correction | | |
| Remote Programming Specifications | RS-232 and RS-485 (up to 31 Power Supplies) | | |
| Communication Interface | Full control of power supply functions and data read-back | | |
| Remote Programming Functionality | Yes, with supplied software | | |
| Data logging | 9600bps | | |
| Baud Rate | | | |

All values are based on the Standard ambient Temperature 25°C and Pressure 0.1Mpa.

* SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE *

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