

# REMOTE PROGRAMMING SWITCHING MODE DC regulated power supplies

Manson



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.

## 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.

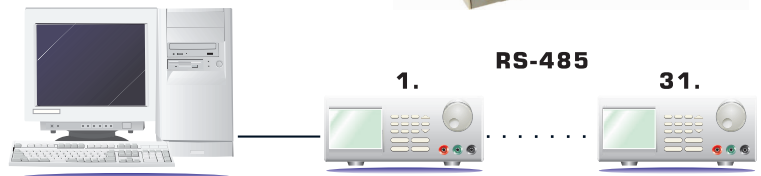
It is ideal for applications with multiple power supplies at various locations with one centralized PC control.

## 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.



SDP - 2405



## SPECIFICATIONS

Output Voltage  
Output Current  
Output Rated Power  
Ripple & Noise (P-P)  
Load Regulation  
Line Regulation  
Input Voltage  
Input Power ( Maximum )  
Power Factor  
Display Meter  
Meter's Accuracy  
LCD Dimension  
Cooling System  
Operating Temperature  
Protections  
Approvals  
Dimension (WxHxD)  
Weight  
Accessories

SDP - 2210                      SDP - 2405                      SDP - 2603

1 - 20V DC	1 - 40V DC	1 - 60V DC
0 - 10A	0 - 5A	0 - 3.3A
	200W	
	30mV p-p	
300mV	200mV	150mV
	10mV	
	100 - 240VAC , 50Hz / 60Hz	
	285W	
	≥ 0.9	
	4 digit - display LCD ammeter , voltmeter and power meter	
	(±1% +5 counts for range V<5V , I<0.5A) (±1% +2 counts for range V≥5V , I≥0.5A)	
	48 x 66mm	
	Thermostatic control fan	
	0 - 40°C	
	Tracking OVP (over voltage protection), Current Limiting and Over Temperature Protection	
	CE EMC-EN 55011 , LVD-EN 61010	
	193 x 98 x 215 (mm)	
	3 KG	
	User's manual, PC Windows® software, Command set, LabView® driver, RS-232 cable, RS-485 Connector and one 120ohm Resistor	
	RS-232 to RS-485 Adapter ATR-2485	
	Adjustable Upper Voltage Limit, Power Factor Correction	

Optional Accessory  
Remarks

## REMOTE PROGRAMMING SPECIFICATIONS

Communication Interface  
Remote Programming Functionality  
Data Logging  
Baud Rate

RS-232 and RS-485 (up to 31 power supply)
Full control of power supply functions and data read-back
Yes with supplied software
9600 bps

\* SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE \*