



Card for inserting in power supply

PSC 232 - Power Supply Controller

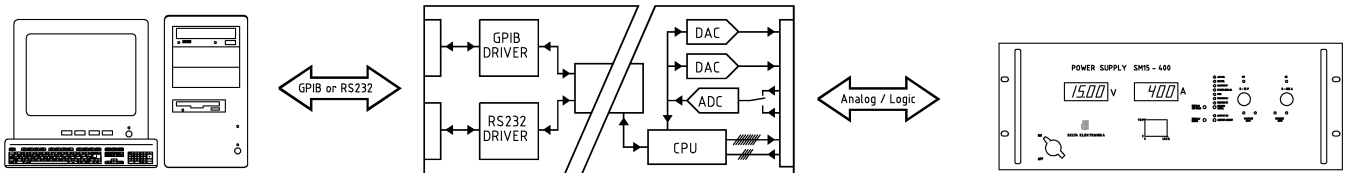
Interface between PC and analog programmable Power Supply

- RS232 interfaces designed to be used with analog programmable power supplies
- Build-in Card or External Module

Features

- Voltage and current of the power supply can be programmable and monitored
- Read back of status signals
- Set the power supply in Remote/Local, Remote ShutDown etc.
- Two 14 bit output channels for programming, two 12 - 16 bit input channels for monitoring
- Software calibration, no trimmers
- Up to 15 PSC's on one RS232 BUS to control multiple supplies

Programming



RS232

- The PSC 232 programs a power supply through the standard serial RS232 port on a computer
- PSC 232 EXT : external module for bench operation or rail mounting
- Switch selectable baudrate 2400, 4800, 9600 or 19600

The PSC allows two groups of commands:

- SCPI (standard Commands for programmable Instruments)
- DPC (Delta Programmable Commands) emulation mode of the old PSC44M (for compatibility only).

The PSC can be programmed using languages like Basic, Pascal, C, Visual Basic, Delphi, Hpvee, Testpoint, LabVIEW etc. Some software examples are available from the website via [link](#).

Analog inputs

- Two 14 bit analog outputs
- Software full scale calibration
- Software offset calibration
- Linearity error 1 LSB
- TC typical 30 ppm/°C

Analog outputs

- Two 12 -16 bit analog input channels
- Software full scale calibration
- Software offset calibration
- Linearity error +/- 2 LSB
- TC typical 30 ppm/°C

Each analog in- and output can be set or read. Analog voltages are standardized on 0 - 5 VDC. Analog in- and outputs have a common zero.

Status monitoring

The PSC provides logic status inputs to monitor the status signals of the power supply as CC mode, current and voltage limit, DC fail, AC fail, and Over temperature.

Controls

Remote ShutDown: enables or disables the output voltage of the power supply.
 REMOTE: Switches from manual control to remote control (not on the PSC-232 modules).

User Inputs

The PSC-232 module provide two 600 VDC opto-isolated logic inputs with common zero for custom use. The input impedance is 470 Ohm, Logic high = 2.5 - 8 VDC, Logic low = 0 V.

User outputs

The PSC-232 module provide two 600 VDC opto-isolated, logic, open collector outputs with common zero for custom use. The outputs collector emitter maximum rating is 50 VDC / 4.5 - 7 mA. See User Manual for more details.

Software & Accessories

Example software and User Manual in PDF format can be downloaded from the website via [link](#).
 The PSC modules are supplied with an analog programming cable, an RS232 cable and a line cord.
 The PSC build-in cards are supplied with an RS232 cable.

General

Temperature: Operating temperature -20 - 50 °C, Storage temperature -40 - +70 °C.
 Humidity: Max. 95% RH, non condensing, up to 40 °C, max. 75% RH, non condensing, up to 50 °C.
 Insulation: RS232 & Logic I/O to Case 600 VDC (reinforced insulation).
 RS232 & Logic I/O to 'minus' DC Power terminal 600 VDC (reinforced insulation).

External Module PSC-232 EXT

Enclosure

Dimensions (h x w x d): 89 x 85.5 x 118.5 mm
 Weight: 0.7 kg
 Degree of protection: IP20

Insulation

RS232 & Logic in- and outputs to case: 600 VDC
 Analog in- and outputs to case: 600 VDC
 Mains input to case: 2500 VAC

Input Power

Rated voltage: 230VAC, wide range 98 - 264 VAC, 48 - 62 Hz
 Power consumption: 10 W
 Hold-up time @ 110 VAC : 80 ms, @ 230 VAC : 300 ms

EMC

Emission : EN 61326-1, class B equipment (for use in domestic establishments)
 Immunity : EN 61326-1, equipment for use in industrial and domestic establishments

Ordering Information

Models	RS232	Comments
ES150	Option P148	Analog programming connector removed
ES300	Option P180	Analog programming connector removed
SM800	Option P254	Analog programming connector still available
SM1500N	Option P183	Analog programming connector still available
SM6000	Option P155	Analog programming connector still available except on models SM300-20 & SM600-10.