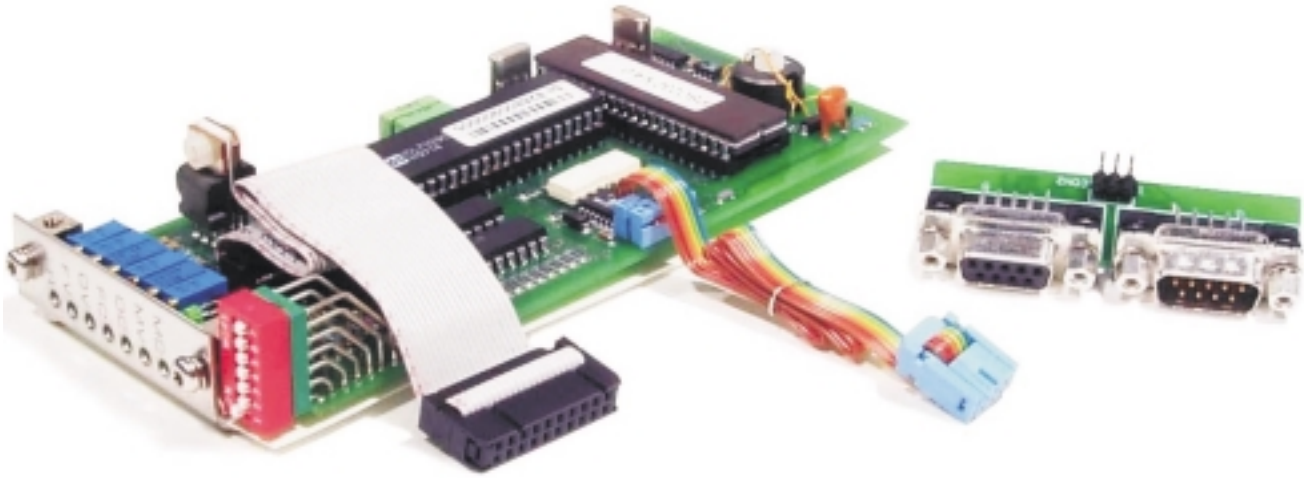
DELTA ELEKTRONIKA BV

P.O. BOX 27
4300 AA ZIERIKZEE
NETHERLANDS
TEL. +31 111 413656
FAX +31 111 416919
www.delta-elektronika.nl



PSC 232P CARD

POWER SUPPLY CONTROLLER

RS 232 BUS COMPATIBLE

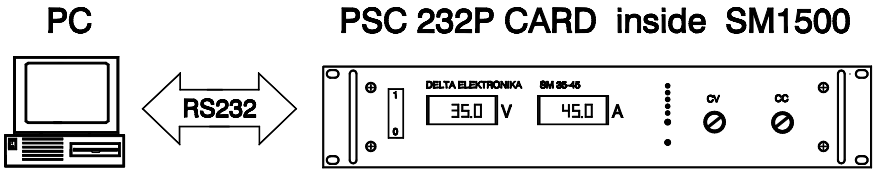
Features

- The PSC232P CARD is an RS232 interface card designed for the SM1500 series power supplies
- The interface fits inside the unit
- Voltage and current programming, voltage and current monitor read-back
- Logic signals to read the power supply's status
- Control signals for Remote / Local and Remote Shut Down
- Up to 16 power supplies with PSC232P CARD can be connected to only one RS232 BUS

Programming

Programming a PSC232P CARD is very simple. The on board processor allows programming with text strings corresponding with SCPI (**S**tandard **C**ommands for **P**rogrammable **I**nstruments).

The PSC232 can be programmed using a PC and terminal program or languages like Basic, Pascal, C, Visual Basic, LabView, Hpvee, Testpoint etc.



Connection between computer and SM1500 - series power supply with PSC232P CARD inside

Computer interface

RS 232 BUS baud rate : 4800 baud (fixed).
Signal level : +10V to -10V.

Connectors

To PC : D9 female.
To next PSC : D9 male.
To power supply : internal.

Specifications

Analog outputs ***: 0 - 5 V fixed.***
Range adjustment : +/- 2%.
Offset adjustment : +/- 5 mV.
Accuracy : 0.1% after calibration.
Resolution : 12 bit.
Linearity error : 1 LSB.
TC typical : 30 ppm / °C.

Analog inputs ***: 0 - 5 V fixed.***
Range adjustment : +/- 2%.
Accuray : 0.2%.
Linearity error : 1 LSB.
TC typical : 30 ppm / °C.

Logic signals

2 x Logic program : Remote Shut Down
Remote / Local.
5 x Logic read back : LIM, CC, OT, ACF
and DCF status.

Accessories

Following is supplied with the PSC232P CARD:

- RS232 cable 9M/9F 1.8m.
- Adapter 25F/9M.
- 3.5 inch diskette with software examples.
- Manual.

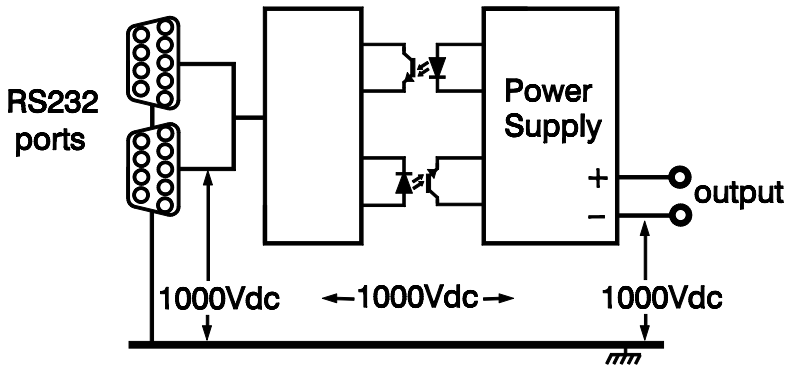
Specifications are measured at an ambient temperature of 25 °C ± 5 °C unless otherwise noted.

Output accuracy, non-linearity and temperature coefficient have to be added to the specifications of the power supply.

Ordering information

- Order as P232P CARD for the interface card only.
- Order option P090 for SM1500.
  An SM1500 series power supply with option 090 has the PSC232P CARD factory mounted, tested and calibrated in combination with the power supply.

Isolation



Isolation voltages between the various connectors and case.