



# GMP INFO

## SRS Six New Products!

### Summary :

1. Laser Diode Controller
2. Laser Shutter
3. Temperature Controller
4. High Voltage Power Supply
5. Universal Gas Analyzers
6. Melting Point Apparatus

### 1. Laser Diode Controller

#### DC501 – with Integrated Temperature Controller

##### Laser Diode Controller

- 500 mA low-noise current source
- Low drift (<10 ppm/°C)
- High bandwidth modulation (1.1 MHz)
- Dynamic switching between CC and CP modes
- GPIB, RS-232 and Ethernet interfaces

##### TEC Controller

- 36 W output power
- High stability 0.0005 °C/°C
- Thermistor, RTD and IC sensors
- Auto-tuning of loop parameters
- Dynamic switching between CT and CC modes



### 2. Laser Shutter

#### SR470 and SR474 – Optical shutter systems

- Ultra-low vibration shutter head
- True mechanical laser beam blocking
- >10 M cycle lifetime
- Microprocessor controlled timing
- DC to 125 Hz (any duty cycle)
- Easy to align 3 mm aperture
- GPIB, RS-232, Ethernet interfaces



### 3. Temperature Controller

#### PTC10 – Programmable temperature controller

- Up to 16 input channels
- Up to 4 PID feedback control channels
- 50 Hz PID sampling
- 1 mK resolution
- Data logging on removeable flash media
- USB, Ethernet, RS232 interfaces (std.)
- GPIB interface (opt.)



## 4. High Voltage Power Supply

### PS300 Series

- +20 kV, -20 kV, +10 kV, -10 kV,  $\pm 5$  kV,  $\pm 2.5$  kV,  $\pm 1.25$  kV supplies
- 1 volt resolution
- 0.001 % regulation
- 0.05 % accuracy
- Programmable limits and trips
- 0.0015 % ripple
- GPIB interface
- RS-232 interface (10 kV & 20 kV models)



## 5. Universal Gas Analyzers

### UGA100, UGA200 and UGA300

- Operates from atmospheric pressure to UHV
- 100, 200 and 300 amu systems
- Fast response time (<0.2 s)
- Electron multiplier standard on all systems
- Stand-alone leak detection
- Built-in heaters for bakeout to 120 °C
- Windows software (uses RS-232 or Ethernet)
- Operates in highly corrosive environments
- Turbo pump venting (opt.)
- Multi-capillary inlet (opt.)



## 6. Automated Melting Point Systems

### MPA Series: MPA100 (OptiMelt), MPA120 (EZ-Melt)

- **Digital movie of each**
- Automatic and visual determination
- PID-controlled temperature ramping
- meltAccurate measurements of melting point & melting range
- Stand-alone operation and computer control (USB)
- Conforms to Pharmacopeia and GLP
- Printer output



- Fully automated operation
- Simultaneous analysis of 3 samples
- PID-controlled temperature ramping
- Digital image processing technology
- Pharmacopeia and GLP compliant



\*: Fixed price for basic operation configuration, transportation included, exclusive tax. Valid from 01.05.08-31.05.08

# GMP

**General Microtechnology & Photonics**  
Systems for Industry, Research, Telecom & Medicine



30 ans de rayonnement  
Laserpioniere seit 30 Jahren  
Laser pioneers for 30 years

Interface active entre producteurs et utilisateurs d'instruments de haute technologie, GMP SA assure conseils, fourniture, ingénierie, mise en service et suivi évolutif.

Als aktives Bindeglied zwischen Herstellern und Anwendern von High-Tech-Geräten bietet GMP AG Beratung, Beschaffung, Engineering, Inbetriebsetzung und fortlaufende Wartung.



Marcel Dubey  
Ing. Phys. dipl. EPFL  
marcel.dubey@gmp.ch



Stefano Okretic  
Dipl.Phys.Dr.rer.nat.  
stefano.okretic@gmp.ch

**www.gmp.ch**  
Updated each week