

## WellChrom DAD K-2700 Installation Guide



Front View of the DAD Module (left) and the Lamp Module (right)

### Setup of the Instrument

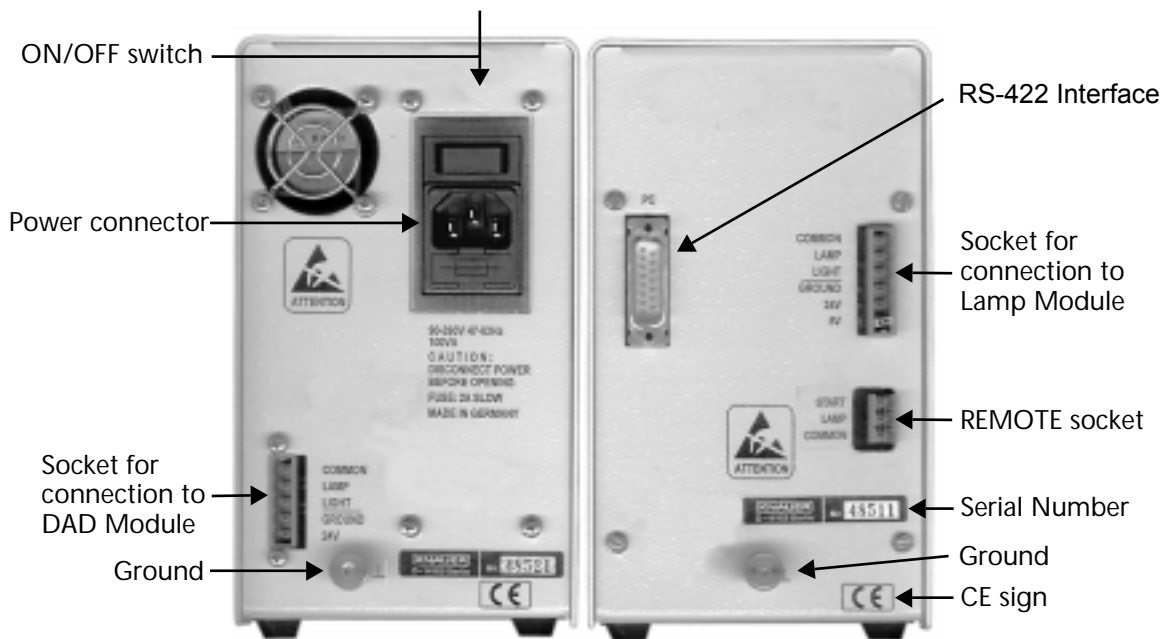
The DAD consists of two housings: the Lamp Module K-2701 and the Diode Array Module K-2700. Place both in a dry environment and do not expose them to direct sunlight.

### Installation of the RS-422 Interface Card

For operation of the DAD K-2700 the RS-422 Interface Card has to be installed in a free slot of the Personal Computer. The recommended specifications are a Pentium processor or higher with at least 32 MByte RAM for Win 95 or 64 MByte RAM For Windows NT and 1 GB of free hard disk space. After installation the RS-422 card is ready for operation.

### Rear Side Installation of the DAD

- Insert the power cable in the lamp module K-2701.
- Connect the DAD module K-2700 to the RS-422 port of the PC with the interface cable.
- Setup the interface connection between both instruments with the corresponding cable, using the two connecting sockets on the rear sides of the modules (see picture).
- Connect the two ground connectors of the instruments with the enclosed cable. Unscrew the ground contacts, put the looped end of the cable over the screw and refasten the nut.



Rear side view of the Lamp Module K-2701 (left) and the DAD Module K-2700 (right)

### External Control Functions

The REMOTE socket on the rear side of the lamp module K-2701 serves to receive signals from other instruments. Available are a START and a LAMP input. The START input serves for receiving a start signal, e.g. from an injection valve or an autosampler, in a system without an additional interface box. By means of the LAMP input, the lamp can be switched off with a short circuit signal. Both inputs have to be mounted to COMMON.

### Installing the flow cell

The flow cell is mounted directly to the front side of the lamp module K-2701. Position the flow cell that the fixing hole on the back will meet the corresponding pin on the lamp module K-2701. Cover the flow cell with the cover plate enclosed and fix it with the two knurled screws. The optical fiber can now be

fixed to the flow cell and directly to the DAD module K-2700 by fastening the screws. Please be careful not to bend or jam the optical fibers. This may lead to breakage of the fiber that will make it unusable. Do not touch the open endings of the optical fibers with the fingers, this may reduce their transparency.

### Remote Setup of the Cell

The flow cell may also be attached with two optical fibers. This allows the spatial separation of the flow cell which may be useful e.g. for installing the flow cell in a column oven or in an explosion proof environment. For this purpose, a special adapter (part no. G4113), a second optical fiber and a flow cell with two connectors for fiber optics are needed. The adapter is screwed in the central opening of the lamp module and enables to fasten a second optical fiber to the lamp module instead of the flow cell.