14 Electronic

K. Esslinger

At the beginning of 1996 the main goal of our group was the realization of the nA current monitoring system (Fig. 14.1) for test and control measurments of the new MSGC's detectors for the HERA - B experiment at DESY (Prof. P. Truöl). We also received two orders from the surface physic group (Prof. J. Osterwalder). First, to assist in the hardware signal adaption of 6 channeltron sources in the new ESCALB 220 photoelectron spectrometer. Second, to copy and built a surface sample temperature control unit (type Fribourg). For the SINDRUM II Collaboration with PSI Villigen, RWTH Aachen, Universität Zürich we helped in the realization of the "individual start/stops" for 256 TDC channel within 16 CAMAC plug- in units from Pillips Scientific. In the report period 1996/97 we have been involved with much modification and repairwork of apparatus for different groups.

14.1 nA current monitoring and measuring system

We successfully completed the production of 12 EUROPAC-modules with two nA current measurement channels combined with four switchable DVM. The total system is tested and adjusted. Moreover with this system it is possible to control 24 high voltage or current sources from one CAEN system on the network.

Figure 14.1: Front view of the nA current monitoring system.