EP-ESS Group - LHC Subracks

First batch delivery edition- 21 July 2003 cp

IMPORTANT NOTES

TESTS - GENERAL WARNING

Your subrack has been tested by Wiener before delivery to CERN. In addition, EP-ESS has performed a number of checks to verify its correct operation before delivery to you. Nevertheless, you are advised to PROCEED WITH CAUTION when using the subrack for the first time!

COOLING

Ensure adequate air flow - beware tabletops
Subracks are cooled with a vertical airflow from bottom to top. If they are to be used on a flat surface such as a tabletop, ensure that air can enter beneath the fan-tray by placing the crate on blocks or bars.

Optimum cooling - fill empty slots
The cooling airflow through the subrack is only adequate when both the front and the rear of the card-cage is complete. This can be achieved with a full complement of modules with front panels (and transition modules, if relevant), or by filling missing positions with blank front-panels (CERN Stores). 9U crates without a J4/J5 (lower) backplane should have the space filled with a blank filler plate to prevent air leakage to the rear, or the mixing of front and rear airflow in the case of a rear transition module card-cage being present.

"Laboratory" 9U subracks with local power supplies - limited cooling
9U crates with power supplies mounted above the card-cage are intended for development work only, and should be used with caution for high-power installations. In crates with power supply cooling airflow entering from the front, the airflow through the modules is impeded by the metal plate between the supply and the cards and their cooling is insufficient. Unless there are specific reasons for retaining this plate, it should be removed (contact EP-ESS).

Action of module temperature sensors - limited protection
The temperature sensors (fixed in slot 1, as well as the optional "flying" sensor - contact EP-ESS to obtain one) are linked to the fan-speed control. When the temperature measured exceeds 45°C, the fans are switched to the default speed setting.

OPERATION

Refer to the Wiener user’s manual for operating instructions and for details of the electrical and other specifications. A paper copy is delivered with every subrack, otherwise refer to the EP-ESS web site:

User's Manual	http://ess.web.cern.ch/ESS/crateProject/userManual.pdf
User Notes (this document)	http://ess.web.cern.ch/ESS/crateProject/userNotes.htm
General information	http://ess.web.cern.ch/ESS/crateProject/

Remote control and monitoring
If the subrack is equipped for remote control and monitoring, contact EP-ESS for operational details before use.

IN CASE OF PROBLEMS

FOR ALL REPAIRS AND PROBLEMS CONTACT EP-ESS - DO NOT CONTACT WIENER

EP-ESS Contacts
Gilbert Dumont - 72275, Paul Maley - 71025, ESS Secretary - 72656

Guarantee period, repair of defective equipment
Subracks, comprising card-cage, power supply and fan-tray, are covered by a two year guarantee from time of delivery. All returns of defective equipment, both within the guarantee period and afterwards, should be made via EP-ESS Group. Any repairs will be prepaid by the owner of the equipment.

Spares
EP-ESS does not hold spares for the LHC subracks and so users are advised to keep sufficient spares for their needs. The Electronics Pool normally has a small stock of crates for rental.
