

CPU - "Light" control and processing unit:

Made in a standard 19" rack, it contains all the boards and the connections needed to make a complete pressurisation station up to the following sizes:

4 SGTA Air generation and treatment sections; 4 SDA Air distribution sections; 4 UASL Line sensor acquisition units.

1 UMI insulation measurement unit. All the electrical connections are made with sub-D connectors.

The rack contains three "basic" boards (power-supply, CPU, communication) and three peripheral boards (2 UASL for the pressure transducers and one UMI for the insulation transducers).

- **"CPU" board**

This is basically a purposely designed industrial PC with a solid-state disk (flash) and 6 serial lines that dialogue with all the peripherals. The disk contains all the programmes, configuration files, alarm files and measurement files for the entire station. A parallel port on the front enables the connection of a printer to store masks and data.

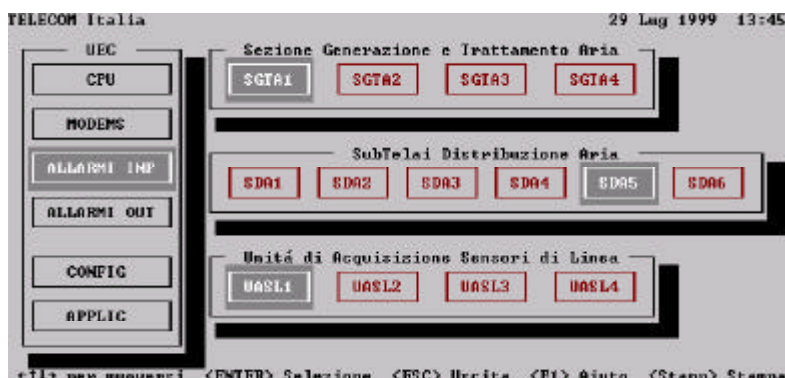
A special additional interface enables the connection with the programming terminal.

- **"COMMUNICATION" board**

This contains all the RS485 interfaces towards the peripherals and the 33Kbit modem for the connection with the Surveillance Centres, circuits for the acquisition of 16 external alarms and the generation of 3 outgoing local alarms.

- Programme:

The station is displayed and programmed via a special terminal with display and keyboard; once programmed, the CPU functions autonomously with the keyboard using the data line (modem) to transmit data and alarms to the surveillance centres.

**Main mask:**

The icons with the various possible station peripherals and CPU functions are displayed.

**Main CPU-features:**

Size:	19" rack, 6 units high, 240mm deep
Power-supply:	48/60 V DC 2A
CPU:	80386 SX;
Flash Disk	20Mbyte;
Ram:	2Mbyte;
Modem:	33Kbit
Connectable peripherals:	4xSGTA; 4xSDA (64 cables); 4xUASL (64 PT lines); 1 expansion board
Various:	16 inlet alarms; 3 outlet alarms;

Main programming-terminal features:

Display:	VGA 640x480 LCD monochromatic.
Keyboard:	standard PC-AT