

Standard Control and Processing unit:

It is made in a 19" rack that contains the display (LCD-VGA), keyboard, DC-DC power-supply unit, and 3 management boards;

- "CPU" board

This is basically a purpose-designed industrial PC with a solid-state disk (flash) and 6 serial interfaces 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.

- "COMMUNICATION" board

This contains all the RS485 interfaces towards the peripherals and two 33Kbit modems for the connection with the Surveillance Centres.

Connections

- "ALARM" board

This contains the circuits for the acquisition of 64 external alarms and the generation of three outgoing local alarms.

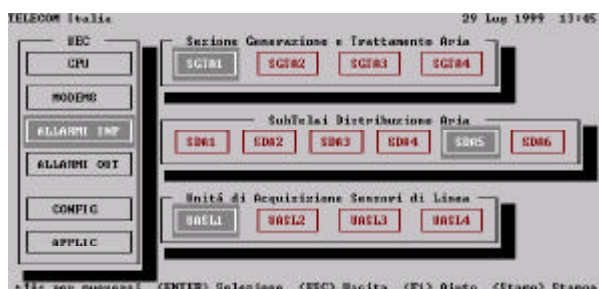
- standard CPU rack

In addition to the aforementioned boards, the rack is equipped for 2 UASL (PT line acquisition units) and a UMI insulation transducer acquisition board (as an alternative to a board for new implementations). There is an IDC strip on the right to make all the electrical connections.

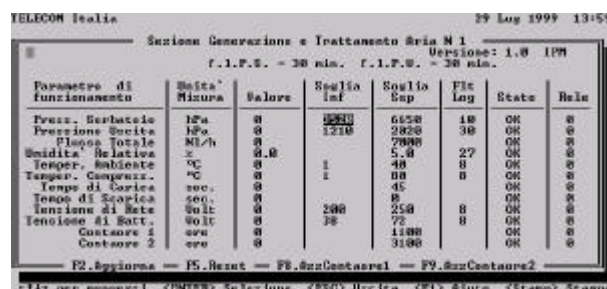
Programme:

The software developed enables the display of data and the programming of the sections with an easy-to-use guided programme. It has masks connected in a tree structure in which the icon of the peripheral or function required is selected to access the data and the programming functions.

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

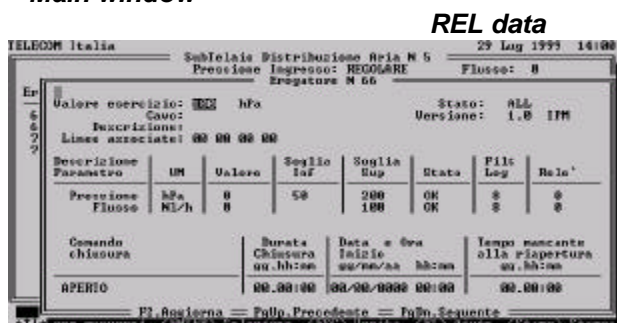


Main window



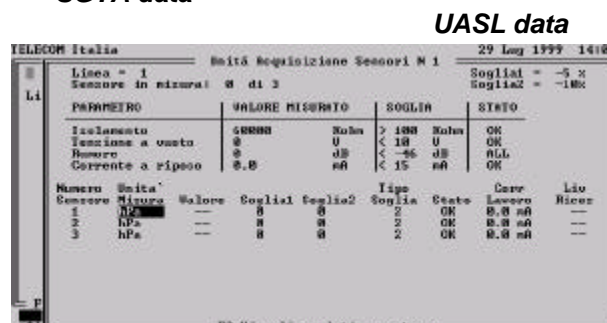
Parametro di funzionamento	Unità Misura	Valore	Soglia inf	Soglia Sup	File Log	Stato	Rela
Press. Statica	hPa	0	1210	6650	10	OK	0
Pressione Statica	hPa	0	1210	2830	30	OK	0
Flusso Totale	ML/h	0	0	7000	0	OK	0
Umidità Relativa	%	0	0	40	27	OK	0
Temper. Ambiente	°C	0	1	40	0	OK	0
Temper. Compres.	°C	0	1	00	0	OK	0
Tempo di Sorveglianza	sec.	0	0	45	0	OK	0
Tempo di Scarica	sec.	0	0	0	0	OK	0
Tensione di Rete	Volt	0	200	250	0	OK	0
Tensione Al Batt.	Volt	0	20	72	0	OK	0
Costore 1	sec	0	0	1000	0	OK	0
Costore 2	sec	0	0	3100	0	OK	0

SGTA data



Descrizione Parametro	UM	Valore	Soglia Inf	Soglia Sup	Stato	File Log	Rela
Pressione	hPa	0	50	200	OK	0	0
Flusso	ML/h	0	100	0	OK	0	0

REL data



Parametro	VALORE MISURATO	SOGLIA	STATO
Isolamento	0.0000	> 100	OK
Tensione a vuoto	0	< 10	OK
Resore	0.0	< -45	ALL
Corrente a riposo	0.0	< 15	OK

UASL data

Main features:

Size:	19" Rack 11 units high, 240mm deep
Power-supply:	48/60 V DC 2A
CPU:	80386 SX
Display:	VGA 640x480 LCD monochromatic.
Keyboard:	standard PC-AT
Flash disk:	20Mbyte
Ram:	2Mbyte
Modem:	33Kbit
Connectable peripherals:	4xSGTA; 6xSDA (96 cables); 4xUASL (64 PT lines); 1 expansion board
Various:	64 inlet alarms; 3 outlet alarms ;