

N3 - Control and Air Distribution Section.

It is made in a special metal frame that contains the control section (CPU-N3 rack) and the air distribution section (SDA-N3).

The section has been designed for use with the SGTA-N3 (to create the SPU-N3), but it can be used with any other SGTA.

The section capacity (max. 16 cables) makes it suitable for use on small exchanges and containers.

- CPU-N3 Rack

This contains the display (LCD-VGA), keyboard, DC-DC power supply unit and 2 management boards (CPU and Communication) and a UASL board for the control of the transducers.

- "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 a 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 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.

**Programme main mask:**

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

- SDA – N3 Air distribution section

This contains a rack to house 16 REL – V3 that feed the same number of cables and all the rapid pneumatic connectors for the pipe coupling.

There is also the possibility to feed the outlets with an emergency air supply; for this purpose, a manometer displays the pressure and the manual valve for the commutation between service and reserve.

- Electrical connections

The upper part gives access to the IDC strip which is used for all the electrical connections (PT lines, modem line, inlet alarms, outlet alarms, etc.)

- Main features:

Size	300L 300P 1100H
Power-supply	48/60 V DC 2A max
CPU:	80386 SX
Keyboard:	PC-AT
Flash disk:	20Mbyte
Ram:	2Mbyte
Modem:	33Kbit
Display	VGA 640x480 LCD monochromatic.
Connectable peripherals	2xSGTA ; 1xSDA (16 cables) ; 1xUASL (16 PT lines) ; 1 expansion interface
Various:	16 inlet alarms; 3 Outlet alarms;

