



MAIN FEATURES

ELECTRIC CHARACTERISTICS

- Selection of the thrusters by cross-bar matrix unit.
 - * six lines corresponding to one general interdiction and five trials.
 - * sixteen columns corresponding to sixteen thrusters
- Number of thrusters connected
 - * total: 16
 - * maximum per trial (connected on the same line): 6
- Current delivered: 2 A. per thruster
- Synchronisation information: TTL level - PCM compatible
- Power supply: 24 to 30 Volts:
 - consumption "Standby": 0.5 A
 - consumption "firing": 15 A.

ENVIRONMENTAL CONDITIONS

- Temperature: - 20° C to + 70° C
- Vibrations: 10 g from 5 Hz to 2 kHz
- Shock: 50 g during 10 ms
- Altitude: 20 000 m
- Humidity: 90%

The unit of control and synchronisation CCV 570 allows, during flight test, to select the firing of the pyrotechnical thrusters PL 81 and PL 91.

Additionally, it delivers coded data in order to recognise the test in progress and to synchronise its analysis from the firing time.

PROGRAMMATION

On ground, before each flight, the user is able to program five trials. On matrix unit he selects the thrusters corresponding to each test. On thumbwheel switches he sets up the data i.e. day, month, year and the flight number.

A cover protects the matrix and the thumbwheel switches during flight.

UTILISATION IN FLIGHT

The pilot or the flight engineer has at his disposal on the remote control box:

- the main control switch, normally locked in position "STOP"
- a selector trials switch, numbered from 0 to 5 (position 0 corresponding to a general interdiction).
- A push button for firing.

The user chooses on the selector switch a trial number. He unlocks and switches to "ON" position the general control switch. He presses the firing push button. The thrusters programmed at ground level and selected during flight, are then fired simultaneously. At the same time, a synchronisation time signal is generated and recorded or transmitted by radio, as well as the date, the number of the programmed flight and the selected trial number.

Next, the user switches on "STOP" the main control switch and locks it. He then resets the selector switch until the next trial.