

### K.2.2. Purpose

From the cuvette roll, cuvettes must be placed one by one into the incubation positions then transferred from the incubation zone to the measurement zone and finally evacuated into the cuvette disposal container.

To achieve this task, there are several steps:

- transfer of the cuvettes from the cuvette roll into a shuttle;
- transfer of the shuttle from the loader station to the measurement station;
- picking up of the cuvettes and transfer to various positions.

**Note:** All the control signals are emitted by the Input/Output board (0230972) and are distributed to the different items via the mother board (0231020).  
The signals emitted by the various switches are fed to the Input/Output board (0230972) via the mother board (0231020).

### K.2.3. Mechanical Description of the Cuvette Loader

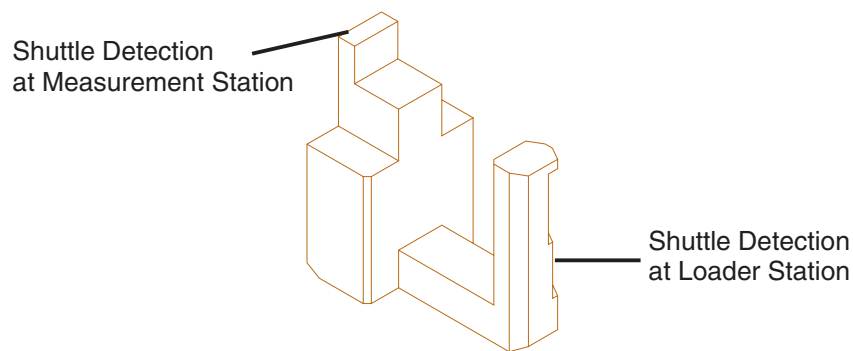


Fig. 8 - Shuttle

The geometrical shape of the shuttle allows:

- transportation of a cuvette, the latter sits on the high parts of the shuttle by means of its 2 handles;
- actuation of the mechanical switch, detection of the shuttle at the measurement station;
- actuation of the mechanical switch, detection of the shuttle at the cuvette loader station without actuating the mechanical switch, ready disposable;
- fixing on the pneumatic jack.

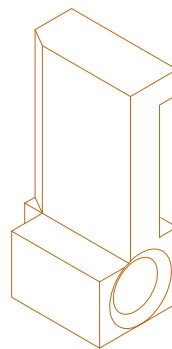


Fig. 9 - Cuvette Holding

During shuttle absence, the cuvette holding keeps the cuvettes in the loading rail. By means of its geometrical shape, it can move without actuating the 2 mechanical switches, shuttle detection at the cuvette loader station and ready disposable detection.

The mechanical switch located in the upper position is used for the ready disposable detection, the lower one for the detection of the shuttle at the cuvette loader station.