

1.1 BARCODE SOFTWARE INTEGRATION



1.2 DESCRIPTION

The barcode software integration gives the possibility to connect to a customer supplied barcode which automatically select a recipe with machine settings based on the barcode label that is placed on each PCB.

1.2.1 THE BARCODE INTEGRATION CONSISTS OF

- The RS232 connector with cabling to the PC on which the barcode decoder is connected.
- The barcode software integration in the PC operator interface program.

1.3 WORKING PRINCIPLES

The barcode reading device shall be mounted on a SMEMA controlled conveyor that is part of the preceding unit in line. With the SMEMA signal "machine ready" (Not Busy) we control the PCB input to the Centurion machine.

1.3.1 WORKING PROTOCOL

1. If a barcode is detected it is send to the Centurion PC.
2. The preceding unit in line releases a board to the SMEMA controlled conveyor and activates(at a certain time) the "Board Available" signal to the Centurion machine.
3. The Centurion machine checks if the barcode is valid and releases the board by releasing the "machine ready" (Not Busy) signal if the machine is at setpoint. If the setpoints are changed the machine waits until it's empty, the new setpoints

are loaded and when the machine is at setpoint again the board is released by the "machine ready" (Not Busy) signal.

4. Within a given time-out after the "Board Available" signal (barcode can also be send before we get the "Board Available" signal!) the Centurion PC waits for the barcode. If the barcode is not received within the given time-out the Centurion machine will generate an alarm. On this alarm the operator can manually choose a recipe from the recipe manager and release the board to the Centurion machine. The alarm is also generated when the Centurion machine has received a barcode but the barcode is not known in the recipe manager, also in this case the operator has to choose a recipe from the recipe manager to release the board to the Centurion machine.

1.4 BARCODE LABELS

The barcode label can have a length of maximum 30 characters, 1 to 30 of these characters, in a closed string, can represent the PCB identification for the auto menu system.

1.5 DELIVERIES

1.5.1 VITRONICS SOLTEC SUPPLIES

- Cable RS232-C from barcode reader to the Centurion PC
- Barcode software integration
- SMEMA or HS180 must be ordered

1.5.2 CUSTOMER OR AGENT SUPPLIES

- The Barcode reader
- The actual mounting of the barcode reader

** All specifications are subject to periodic review and may be changed without notice. Vitronics Soltec assumes no obligation for specifications contained herein.