

FACT Technical specifications:

- 20 * 4 LCD alpha numeric display for user interface.
- 4 keys with tactile feedback for long lasting usage.
- USB socket to connect pen drive for data transfer, programming, and security operation.
- Parallel port for online label printing.
- 2 -RS232 i.e. serial ports for data transfer, programming, connecting external devices such as barcode scanners and other customized devices.
- 2- Relay out puts available for actuating external devices and 2 digital inputs are available for receiving signals from external devices.
- Works on 12 V DC power supply provided by FUTURA.
- Programmable tone and volume control.
- Basic model can go up to 256 points i.e. 4 IO cards, each IO card consist of 64 points.
- Extends up to 1024 IO points.

FACT features and applications:

- Barcode scanner can be connected serially, for selection of particular program from stored data. It **deskills** operator responsibility.
- Selected program can be cross checked with help of master barcode through barcode scanning provision if required.
- Verification of correct barcode after label printing via barcode scanning.
- Use of bar scanner for operator code, variable data entry for traceability.
- **Auto mode** of testing gives facility of loop or automatic testing i.e. on mounting new harness test is initiated and it is not completed unless harness is removed from the board or jig.
- **Manual mode** is for controlling each cycle manually, i.e each testing cycle is started by pressing a key.
- **Cutter module** destroys faulty harnesses permanently so that they cannot be reworked in some special purpose applications such as air bag harness testing.
- **POKAYOKE** mode provides error proof environment where harness is locked after mounting and released only after harness is passed .Faulty harnesses must be put in **FAIL BIN**, and unless **FAIL BIN** signal is generated next testing cycle is not started. Locking, unlocking mechanism can be externally developed. Actuators for locking and unlocking are provided by tester.
- **Circuit by circuit** testing mode is useful for big boards or jigs with less manpower. Passed circuits no longer needed to be kept connected to board until testing cycle ends.

- **ALL circuit** mode is useful for good quality boards and complete error proof environment is created.
- For critical errors tester goes to “**lock mode**” and unlocking can be done through authorized access.
- **Arrest fail** feature will arrest first generated fault immediately.
- Continuous buzzer on error detection is available to alert user during testing. Passed circuits should be mounted on boards until complete harness is passed.
- Authority control is provided by USB MSD i.e. pen drive, it can be configured as **MANAGER, SUPERVISOR, and OPERATOR**, and accordingly access can be granted.
- **HACG** i.e. coupler guide feature is provided to identify and locate particular harness from combined or complex board containing various harnesses during testing.
- Two **relay outputs** are provided for actuating any external devices; one relay for pass result and one for fail result.
- Two **digital inputs** gives flexibility to integrate any external device such as limit switch, any process sensor, signal from any actuator, fail bin etc to control testing process.
- **Parallel port** is provided for online label printing. Any parallel port printer can be attached.