Despatch

◆ FutureDesign MCT4 Controller
A Microprocessor Based Oven Controller

The MCT4 combines multiple control and monitor components in a single device. The 4.3" color touch screen allows users to select PC type menu or smart device slide-navigation. Secure email (SSL/TLS), SMS (text messaging), FTP, FileWeb and DataWeb/Cloud protocols allow the MCT4 to interface and backup data to LAN/WAN/Cloud based systems and data bases. Math/Logic/Timer functions included as standard.

The MCT4 is equipped with a Web server and remote control via VNC from any smart device or PC. Single touch notification provides loop, alarm, profile and system information in a simple touch scroll list from any screen location.

"ONE TOUCH" Profile Program Entry

The MCT4 provides program entry operations on a single screen. Touch scroll lists and menu icons provide dynamic operations based on user selections. Simple on/off buttons within the scroll lists eliminates navigating through multiple screens to complete program entry tasks.

64 programmable steps include ramp, soak, jump and jump cycles. Loop setpoints, step events, step hold/wait for and repeat functions provide advanced program functionality with 8GB of storage.

Copy and paste functions allow quick entry of step data as well as copying step events to all remaining program steps to reduce complex program tasks.

Slide out numeric keypads and program control windows allow the user to maintain view of the background window to reduce screen clutter. Transparent dialogs and pop-up menus provide quick operations for all profile functions without leaving the main profile entry screen.

Profile run status is available in detail or from loop and overview screens as well as notification drop down touch lists which are available on all of the MCT4 runtime screens.

The help icon provides context sensitive information for all views including Profile Program Entry.

FEATURES AT A GLANCE

- ◆ Paperless recorder/data logger
- ◆ Trend viewer/data viewer
- ◆ Touch screen, slide navigation menu, touch list user interface with help on every view
- ◆ 64 step profiler with 8GB storage
- ◆ One Touch profile entry with touch scroll lists and dynamic icon menus to eliminate costly learning curves
- ◆ Multi-lingual interface supports 11 languages – selectable by the touch of a button
- ◆ 4 level security with digitally signed audit trails and data files.
- ◆ User configurable datalogging and historical data viewer.
- ◆ Meets data acquisition requirements: CFR21 Part 11 and AMS 2750F

Data Logging

The MCT4 supports data logging of all process variables with 8GB of storage standard. Filename, lot number, batch number, log interval and days to log are all configurable from the front touch screen. Program log control allows the user to start/stop logging using the automated programmer with the program name used as the datalog name. "Always Logging" startup option provides the ability to enable the MCT4 to log at all times to maintain 24/7 logging operation. The "Days To Log" option allows the user set the time in days before a new file is started to sync data files to match product cycles as well as keeping data file size manageable.

Historical Data Viewer

MCT4 includes a historical data viewer that allows trend chart viewing of data files stored on the device (8GB max). Selection of data points, data start/end time along with drag and zoom trend options (with legends) provide a quick and easy view of any batch run for any date and time.

Digital Signatures

Meets the requirements for data acquisition for CFR21 Part 11 and AMS 2750F

Chart Trend View

Four real time charts configurable to display any variable in the controller (up to 6 values per view) over a selectable time period of 4-minutes to 24 hours. With configurable left and right axis, automatic or defined chart scales and finger pinch on the fly zoom, the 4 configurable charts allow an operator a 1-button touch to view recent process history without opening a data log file.

User-Based Security

MCT4 includes an easy to configure, full user based/user rights security for system, user, supervisor and administrative levels. Up to 30 users supported with each user having the option of type assignment (user, supervisor, etc.). Each function in the MCT can be enabled or disabled for each user type. The user decides which options each user type has access to rather than a "number" based system which can include functions not desired for most "process secure" operations.

PROTOCOL MANAGER™
MONITORING & DATA ACQUISITION SOFTWARE

Protocol Manager™ reduces costs through improved process and quality control. The software enables communications between a personal computer and up to 32 Despatch ovens equipped with Protocol Plus and

Protocol 3™ and MCT4 controllers. The user friendly software allows oven control, recipe download and data logging.

SPECIFICATIONS

- ◆ Display Type: TFT color touch display
- ◆ Display Size: 4.3"
- ◆ Display Colors: 65,536
- ◆ Display resolution: 480 X 272
- ◆ Display lifetime hours (nominal): 30,000
- ◆ Display type: Resistive Analog - IP65
- ◆ 256MB Internal Flash
- ◆ 8GB SD (SLC) for file storage
- ◆ Serial: Com1 (RS232/485), Com2 (RS485)
- ◆ Ethernet: 10\100 baseT - USB: 1 host
- ◆ Modbus Master and Slave Protocols (Serial and Ethernet TCP/IP Modbus slave protocols available simultaneously)
- ◆ Approval Standards: NEMA 4X/IP65, UL, cUL, CE, RoHS, W.E.E.E, FM (high limit)
- ◆ Languages supported: Chinese Simplified, Chinese Traditional, English, French, German, Italian, Japanese, Korean, Portuguese, Russian and Spanish

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