



Quality Monitor[®] 2.3

Design and Specifications

Designer - Page 1
Harrington Liquid Packaging
 Date: 6/26/2003 Time: 10:56
 QC Technician: [Dropdown] Shift: 1
 Line Number: [Dropdown]
 Lot Number: [Dropdown]
 Lot Code: 534A-12 Q

Defect Code:
 Damaged quat - Q 1
 Damaged Cap - D 0
 MisThreaded Cap - T 0
 Loose Cap - C 0
 Bad Seal - B 0
 Missing Seal - S 1
 MisAligned Label - A 0
 Bad Label - L 0

Samples	Weight	Cap Torque
1	344	4.23
2	344	4.51
3	343	3.97
4	344	4.62
5	343	4.41
6	343	4.41

Specifications
 Net Weight
 Lower Target Upper
 Cap Torque
 Lower Target Upper

Alarm List
 Net Weight #1 below LSL
 Cap-off Torque #1 below LSL

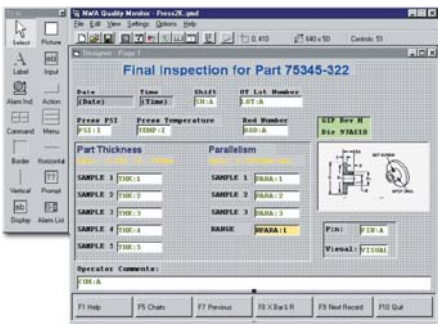
Enter the operator's first name.

F1 Help Screen F2 Data F5 Previous Record F6 Next Record F7 SPC Chart Menu F9 Quit

- Pull-down lists simplify data entry
- Use graphics and photographs to illustrate procedures
- Barcode entry for data and defect codes
- Direct data collection from multiple devices
- Visual alarms
- Dynamic SPC and specifications alarm list
- Full font and color control for on-screen text
- Fully definable command and menu buttons
- Context sensitive prompts and help

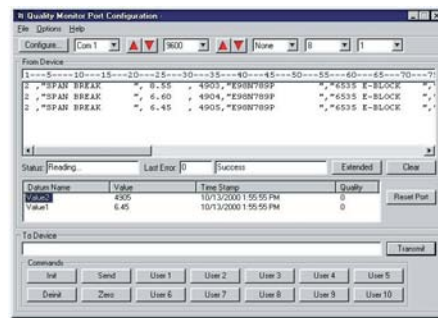
Graphical Designer

Visual tool for creating full-screen user-interface designs.



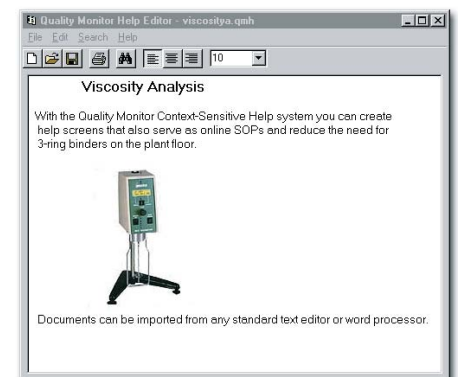
Device Configuration

Measurement device configuration and communications diagnostics.



Help Editor

Create context-sensitive help and SOPs.



User Interface Components

User interface can be composed of any number and combination of components

- Input Box
 - Key entry
 - Drop-down selection list
 - Measurement device input
- Display Box
 - Calculations
 - Informational data
- Tabulate Box - simplifies defect category entry
- Input Prompt - specific to each Input Box
- Label Text - full font and color control
- Picture - supports BMP, GIF, JPG, and other formats
- Command Bar - dockable groups of command buttons
- Pop-up Menu - cascading groups of command buttons
- Action Button - individual command button
- Alarm Indicators - alarms linked to each input and display box
- Alarm List - displays current alarms
- "Quick View" - tabular display of previously collected data

Data Input Options

Input source and management features

- Source
 - Keyboard entry
 - Read from measurement device
 - Read from barcode
 - Read from text file
 - Calculation result from defined formula
 - Constant value
 - Incrementing or sequence count
 - Default to previous value
 - System date - system clock
 - System time - system clock
- Upper and Lower Bound limits
- Allow/Prevent modification of existing data
- Input Mask for key, device, and calculation input
- Field-specific prompt text
- Field-specific help reference

User Commands

Command Bar, Pop-up Menu, and Action Button options

- Command bars dock to any margin
- Pop-up menus cascade to 10 levels
- Button text includes full font and color control
- Button definition includes short-cut (function) keys
- Command Actions
 - Display Chart - display SPC charts
 - Print Chart - print SPC charts
 - Help - display field-specific help
 - Alarms - display alarm lists
 - Run - start Quality Analyst automation script
 - Send - send pre-defined commands to devices
 - Launch - start other Windows applications
 - Archive - manually start data archive

Help System

Complete SOP support on the plant floor

- Context sensitive help for each input field
- Full font and color control
- Embedded graphics and pictures
- Includes built-in Help file editor
- Reads RTF file format from word processors and editors

Alarm System

Visual and audible alarming on specifications and SPC limits

- Alarm Types
 - Specifications
 - SPC Limits - control, warning, and rule violations
 - Fixed Limits
- Alarm Indicators
 - Separate indicators for each alarm type
 - Specific to each Input and Display field
- Alarm Lists
 - Fully definable text for each alarm type
 - Pop-up or continuous display
 - Includes complete alarm history for each data record
- Alarm Actions
 - Add message to alarm list
 - System beep
 - Assign text comment to data field
 - Play .WAV files
 - Send alarm list by email at record completion

Device Interface

Real-time data collection from measurement devices

- Interfaces through standard RS-232 (serial) ports
- Simple point-and-click device definition
- Interfaces with common measurement devices
 - Scales
 - Gages
 - Multiplexers
 - Special Purpose
- Includes extensive library of predefined devices
- Device configuration and troubleshooting tool
 - Troubleshoot communications problems
 - Test input devices
- Interface with text files

Data Storage and Connectivity

- Links multiple NWA Quality Monitor[®] workstations for multistep manufacturing processes
- Uses NWA Quality Analyst[®] Data Sets
- Allows up to 200 characteristics per Data Set (includes any combination of variable, attribute, or descriptive data)
- Automatically writes to ODBC-compliant databases (e.g., SQL Server, Oracle, MS Access, etc.)
- Reads specifications and descriptive data from ODBC-compliant databases

Configuration and Licensing

- NWA Quality Analyst required for Data Set definition and SPC chart configuration
- NWA Quality Monitor Designer (screen design, device configuration, help) to configure plant-floor workstations
- NWA Quality Monitor Runtime installs on each plant-floor workstation

System Requirements

- Windows* 95, 98, Me, NT4, 2000, XP, or Server 2003
- Any PC-based LAN (NT, Novell, etc.)

Recommended minimum systems:

- Quality Monitor Designer:
 - 266 MHz Pentium
 - 32 MB RAM
- Quality Monitor Plant-floor Workstations:
 - 120 MHz Pentium
 - 16 MB RAM

Note: Slower systems may be used for plant-floor workstations, depending on size and complexity of data input screens.