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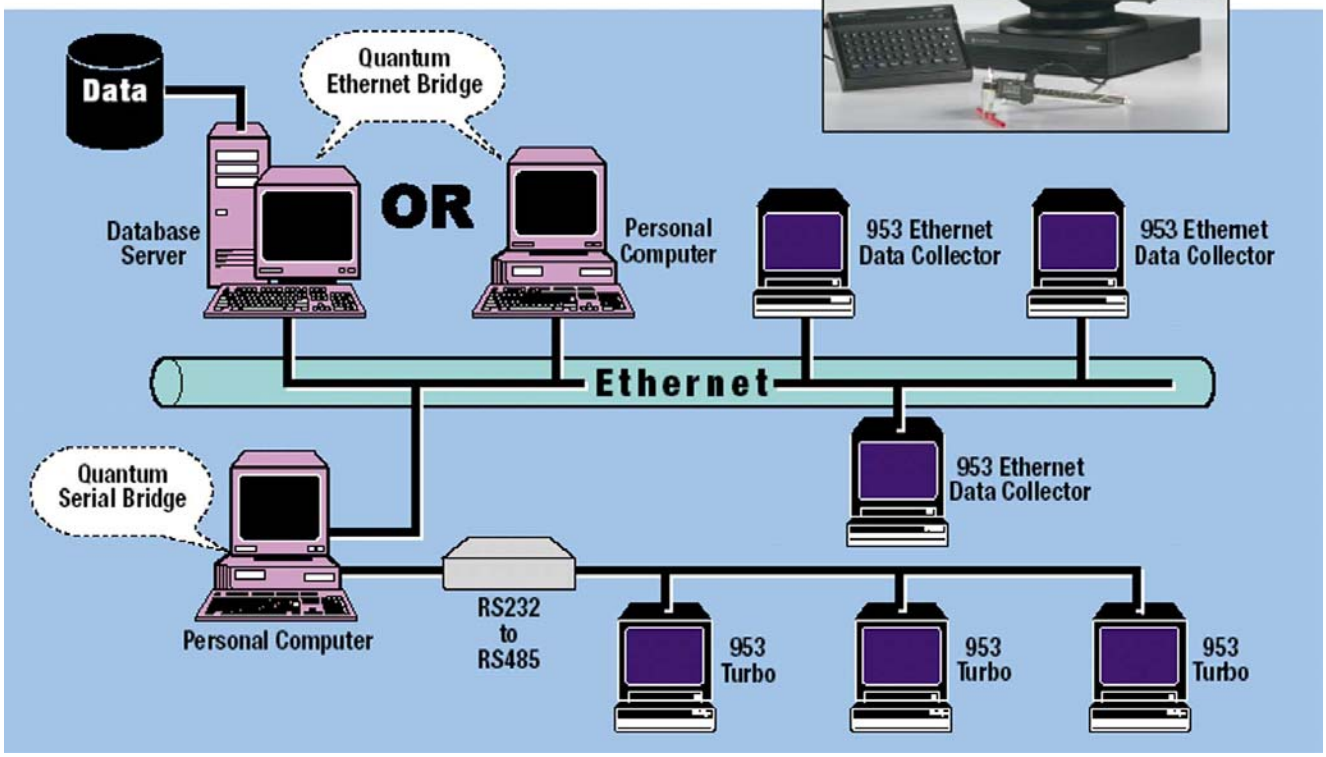
ASI DataMyte **Total Quality Solutions**

ASI DataMyte's

953 Data Collector

increases your factory floor productivity





Whether you're performing on-line inspection, unattended data collection, or incoming or lot inspection, the DataMyte 953 is easily tailored to your needs. It lets you collect and analyze variables and attribute data from digital and analog gages, and from Linear Variable Differential Transformers (LVDTs). It displays a wide variety of charts, including X-bar and R, histograms, Pareto charts, and p-charts.

Intuitive

Best of all, the DataMyte 953 is easy and intuitive to use. It features:

- Easy-to-read menu commands for all functions
- Simplified tracking of multiple parts and dimensions
- Single key commands to bring up charts, data collect screens, part characteristics, and other SPC data.
- Warning messages flash on a bright red background when trends and out-of-control situations occur.

Simplified Interface

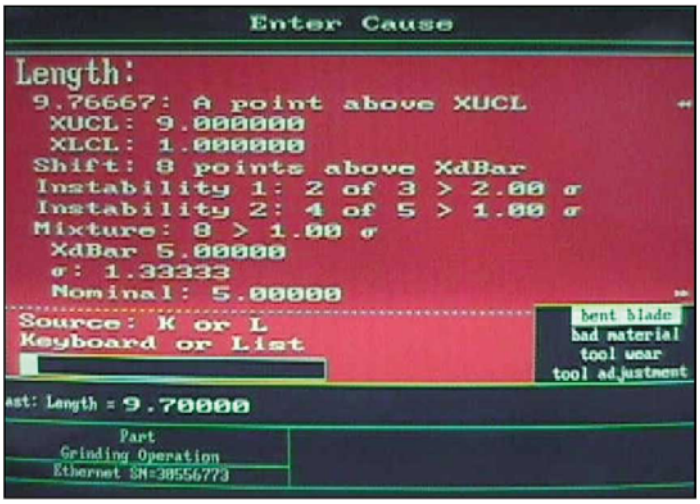
The DataMyte 953 is available with three different keypad options to fit a wide variety of data collection situations:

- Standard alphabetic keypad with silicone rubber surface designed to resist spills, grease, and airborne containments. Task-oriented keys make it easy for operators to become familiar with the 953.
- CustomPad™ Configurable Keypad, a labels and attributes entry system that lets you configure its key layout using a personal computer. The CustomPad 900 connects to a 953's gage port and comes with all necessary cabling and documentation for configuration. Typical CustomPad applications include: attributes, labels, assignable cause and keyboard macros.
- Computer-style 101 QWERTY keyboard, designed for use in clean environments and when operators are already familiar with computer operations.

Enhanced Attribute Capability

The 953 data collector performs real-time individual and batch attribute data collection. Attribute data can be collected via a barcode wand, the 953 keypad, the CustomPad, or the 101 QWERTY keyboard.

Not only can you collect more than one defect per piece, but multiple operators at multiple locations can also send defect data simultaneously to a single 953. Attribute information is displayed as a Pareto chart or a p-chart. Information such as piece counts, lot numbers, defect locations, defect characteristics, operator name, assignable cause, and corrective action can all be collected by the 953.



953 Trend Alert Screen

Group Charts

The 953 features group charting for applications where multiple processes produce identical product, such as multi-spindle screw machines, multi-cavity injection molding and multi-head filling machines. The group chart maintains trend analysis on each process, and shows the points closest to going out of control.

A group chart statistics report is available to let you quickly spot trouble areas hidden among many characteristics. This report is useful for applications that require large numbers of characteristics. It lets you check hundreds of characteristics and dozens of subgroups for out-of-control conditions at a glance.

On-Board Setup Editor

The 953 data collector features an on-board setup editor to give it stand-alone operating capability. Your operators have a choice of creating part setups right at their work stations, or creating setups in DataMyte TurboSPC® or Quantum SPC/QA™ software.

The 953 can accommodate as many as 400 characteristics per part, depending on part configurations. Subgroup size can be varied from one sample per subgroup to a maximum of 200 samples per subgroup.

Multiple Gages, Multiple Inputs

The 953 data collector can support up to 36 gages or 56 LVDT probes in any mixed or matched combination. It also supports the new generation of smart serial gages, with capability to send strings of up to 40 characters to these gages.

In addition to the 953's four gage ports, as many as eight DataMyte 911 analog, 912 digital or 914 LVDT gaging system multiplexers can be daisy-chained together and linked to the 953. These input devices can be mixed or matched to provide a combination of analog, digital, and LVDT input capability.

Statistics

The 953 also provides short-run SPC capability, with standardized X-bar and R-charts for processes with multiple parts regardless of standard deviation. The 953 data collector performs both long and short form gage R & R studies. It collects study data, automatically performs calculations, and displays results. Square root, addition, subtraction, and other math functions can be added to your data collection routines with the enhanced math capabilities of the 953.

Memory

Two memory versions are available: 1000K and 2000K. Total installed memory is displayed on the 953 startup and title screens.

Networking and Beyond

The 953 data collector takes you beyond collecting and analyzing your SPC data. Built-in networking capability is standard in every 953. Collected data can be used in DataMyte Quantum SPC/QA or TurboNET software to provide sophisticated data analysis, data storage and parts setup and management for the 953.

The 953 can be manufactured with an Ethernet® card already installed. With the Ethernet card, you can hook up to a new or existing Ethernet factory-wide network.

A multi-user system running on Ethernet can consist of several 953 data collectors, along with multiple personal computers running DataMyte Quantum SPC data collection or quality analysis software. This means unlimited expansion capabilities for your 953 data collection stations.

With the addition of DataMyte TranSend™ utility software, you can download setups directly from most popular spreadsheet programs, such as Microsoft® Excel®. Clicking on the TranSend button on the Excel tool bar is all it takes to begin the operation.

Spreadsheet Interface

The TranSend setup editor supports creation of pick lists for both piece and subgroup labels. Making setups with several similar characteristics is easy since copy and paste are supported. Variables characteristics, subgroups and piece labels are also supported. TranSend also lets you transfer data back to the spreadsheet program to create your own custom reports.

TranSend works with Windows95 and Windows98. The TranSend program automatically recognizes the proper operating system and loads the appropriate software at the time of installation.



The 953 in use at an online inspection station

Languages

Seven language options are available to the 953: English, French, German, Italian, Portuguese, Spanish and one user-defined language.

DataMyte 953 Specifications

User Interface

- Color Graphics
- On-screen help windows
- Large character prompts
- Pop-up windows
- Gage name prompts
- Two-key operation for most functions

Hardware

- Dimensions: 11.5" x 12.5" x 2.5"
- Power supply: 90-260V AC; 50-60Hz
- Standard Keypad: 52 key, factory hardened keypad
- Date/Time Clock
- Audible output with volume control
- Numerical precision: Eight digits plus decimal point and sign
- Connectors: Four gage ports (digital), monitor, network, multiplexer port, keyboard, footswitch, power
- Optional:
  —Footswitch for entering measurements
  —Barcode wand: Reads UPC, Code 39, Interleaved 2 of 5, Codabar, Code 128, EAN,Code 2 of 5, Code 93, and MSI
  —101-style keyboard or CustomPad
  —Mounting bracket
- Monitor: Color VGA
- Gage cables
- Resistant to airborne particulates
- Operates in environments up to 115 ° F (45° C)

Charting and Reporting Features

- X-bar & range control charts and statistics
- X-bar & sigma control charts and statistics
- X-bar only chart
- Individual and moving range charts
- Short run control charts and statistics
- Histogram and statistics - Cp, CpK, Cr, CpU, CpL, offset, offset %, min, max, mean, range, sigma, 6-sigma, mean ± 3 sigma
- Multicharacteristic capability report
- Histogram statistics based on standard deviation or R-bar
- Group charts and statistics
- Pareto charts and statistics
- P-Charts and statistics
- Charts automatically graphed as data is collected
- Trends and out-of-control points indicated on control charts
- Data reviewed by piece or characteristic
- Points on control charts connected
- Assignable cause displayed on control charts
- Top three attributes highlighted in color on Pareto charts

Gage Interfaces

- Up to 36 gages or 56 LVDT probes supported
- Digital gage inputs from Mitutoyo, Federal Maxμm, Chicago Dial Indicator, Digitrix, Ono Sokki, RS232, RS422, RS423, Sylvac, Trimos, Mini Trimos, continuous serial
- Smart serial gage support
- 110 to 19.2 Kbaud
- Four digital ports on data collector
- High level analog supported via four ports on 911 multiplexer
- Four additional digital ports on 912 multiplexer
- Up to eight 911 and/or 912 multiplexers supported

Other Features

- On-board setup editor
- Enter, review, edit, retake data
- Automatic date/time stamping of data
- Automatic scanning and recording of gage inputs
- LVDT support via 914 multiplexer
- Part selection via barcode
- Math — TIR, absolute value, square root, sum, average, addition, subtraction, division, raise to power, standard deviation, minimum, maximum, range
- Long and short form gage R&R
- Geometric tolerances
- Automatic label filtering
- Barcode security
- Trends detected, including runs, shifts, instabilities, and points outside of control limits
- Audible and visual alert to operator
- Caution limits included in displays
- Engineering limits as actual or deviation from nominal
- Memory
  — 1000 K standard
  — 2000 K optional
- Three characteristic labels, including cause
- Assignable cause with choice list
- Characteristic label prompting
- Reaudit for new part creation
- Five subgroup labels
- Ditto feature for labels
- Parts capacity limited only by memory
- Up to 300 characteristics per part
- Variable subgroup size (1 to 200)
- Historical data download
- Multi-level password protection
- Password protection of gage names
- Automatic network data transfer
- Attributes with location and count
- Mixture and systematic variable trend checking
- Null finder for missing data
- Battery backup

Compatibility

- The 953 data collector is compatible with these DataMyte products:
- TurboSPC V software v4.3 or higher
- TurboSPC VA software v4.3 or higher
- TurboNET™ software v4.3 or higher
- Quantum SPC/QA™ software v2.0 or higher
- 911 multiplexer v1.0 or higher
- 912 multiplexer v1.0 or higher
- 914 LVDT multiplexer v1.0 or higher
- Quantum Serial Bridge v2.1 or higher
- Quantum Ethernet Bridge v1.0 or higher
- Quantum RCSL software v2.1 or higher
- TranSend software v1.01 or higher

Specifications shown are for the current version of the 953 data collector, and are subject to change without notice. All company and product names are trademarks of their respective companies.

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