Handheld SPC data collectors
Made to Last

The Genesis line of roving data collectors gathers up to 32 variables and/or attributes. Depending on the model, users may collect data from analog, digital, LVDT, bar code or voice recognition devices. And with Genesis' automatic gage recognition, there is no need to program in gage information—just plug in any gage and collect data.

Functionality…
- Rugged Hand-held (portable and self-contained)
- Fixed station with optional external monitors
- Networks with enterprise systems

High-contrast LCD screen displays crystal-clear charts, graphs and data lists…
- 16-line by 42-character super-twist LCD displays more information than other portable collectors
- Pop-up window warn users when process is out of control and recommend courses of action

Built-in network hardware…
- RS485 output for direct communication to any network. Optional LAN-link module for 10/100baseT Ethernet networks or Wireless interfaces

Trend analysis…
- Automatically warns of out-of-control situations through status lights and screen displays, prompting users with causes and corrective actions using eight user-defined tests

Traceability…
- Choose from up to 8 user-defined subgroup variables (date, time, operator, machine number, etc.)
- built-in capability to filter data based on any combination of subgroup variables

Capacity…
- Collects data on as many as 99 features per part
- Each unit can handle subgroup sizes from 1 to 50
- Capacity to store and analyze 24,000 measurements
- All models are "variable" data collectors, but models QA3000 and QA3300 also perform input of "attribute" data within the same part program as well as Gage R&R

Instant access to data…
- Point and select feature allows users to point to a specific subgroup or feature on the display
- With a single keystroke, users access measured data, subgroup variables, statistical calculations

Status lights…
- Complete array of status lights to advise operator of conditions requiring immediate action

Fully sealed keyboard and keypad…
- Functional sealed QWERTY keyboard and numeric keypad

Output to status and control devices port…
- Connect external accessories including earphones and status lights or control signals

Print hard-copy reports…
- Centronics parallel port for printing charts and data reports, including x-bar/r, x-bar/s, ix/mr,
- mx-bar/mr, histogram, pareto, capability, sample and subgroup data, mean, standard deviation, Cp, Cpk, Pp, Ppk, CR, PR, Cpm, CPU, CPL, ZU, ZL, % US, % OS, skewness and kurtosis

---

CONTROL YOUR SHOP FLOOR WITH
- SPC Software
- Gage Interfaces
- Genesis Roving Collectors
- Wireless Data Transfer

Genesis 1000 Series FEATURES

Variable Data Analysis
Individual X/Moving Range
X-bar/Range
X-bar/Sigma
Histogram
Capability Analysis
Moving Average
Moving Range
Moving Sigma

Attribute Data Analysis
P, Np, C and U Charts

General Data Analysis
Run Charts
Pareto
Regression
Short Run Analysis
Process Monitor Chart
Box-Whisker Chart

Size and Weight
9.25" x 8.5" x 3.25" at 4 lbs

Gage Interfaces
Connect 4 digital or analog gages, and expand to 32 gages using Multi-gage Interface (MGIs)

For more information on any of our products or services please visit us on the Web at:

www.spcanywhere.com

Genesis Data Collectors Features & Benefits

Genesis QA 2500 and 2800 summary…
- QA2500 incorporates 4 digital gage ports
- QA2800 incorporates 2 digital and 2 analog gage ports
- Additional gages may be interfaced by adding Genesis Multi-gage Interfaces (MGIs)

QA3000 and 3300 summary…
- QA3000 unit incorporates 4 digital gage ports
- QA3300 incorporates 2 digital and 2 analog gage ports
- Additional gages may be interfaced by adding Genesis Multi-gage Interfaces (MGIs)
- Variables data collection and analysis with the flexibility to collect and analyze attribute data
- Gage R&R

Why Gage R&R (Repeatability and Reproducibility) is so important…
- An analysis of a process cannot be meaningful unless the gages used to collect data are both accurate and repeatable
- Without fully understanding the performance of the gaging used to produce this data, users may be reacting to faulty gages rather than variations in the process itself
- Firms pursuing ISO 9000 need Gage R&R as it is an important asset

Size and weight…
9 ¼" x 8 ½" x 3 ¼" at 4 lbs

Battery life is 12-14 hours (continuous use)

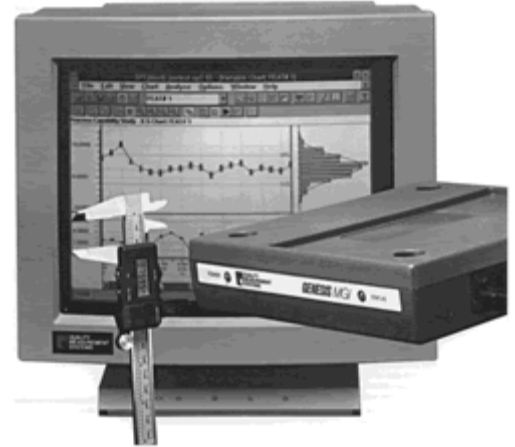### The Genesis Multi-gage Interface (MGI) streamlines data collection process.

Users collect data from a wide range of electronic gages and convert the signals to a common RS232 output. Measured data goes directly to PCs for use with statistical process control (SPC) software.

Genesis MGIs have four gage ports and can be daisy-chained to increase the number of ports at any one gaging station. In addition, a bayonet connector provides convenient foot-switch operation when needed. Up to 32 gages can be interfaced to a single PC serial port in any analog or digital combination. The MGI is available in two models…
- Genesis MGI-D (digital) with 4 digital ports
- Genesis MGI-C (combined) with 2 digital and 2 analog ports

Analog gage ports provide excellent resolution through a 12-bit (plus sign) A/D converter. Data from a column gage with a full-scale resolution of .010 will resolve to 2.5 millionths of an inch. The MGI with analog capabilities also provides…
- Reference voltages to drive variable resistance or strain gage devices
- Easy configuration of gage signals to MGI requirements with ASDQMS interface cables
- Inputs configured for single ended, dual or differential operation
- "First Peak" and "Total Peak" readings from analog inputs (useful in torque applications)