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Unequaled Reliability In Portable Data Collection

DataMyte 3000-Series Data Collectors

The DataMyte 3000-series data collector is available in three models to fit a wide variety of data collection needs: The 3053 with analog and digital ports, and the 3052 and 3055 with digital ports only.



The 3053 is ideally suited for roving torque audits.

Torque & Angle Plots for 3053

- The 3053 includes 'angle' as a gage type.
- Optional angle-detecting hardware gives torque and angle display capability.
- Allows capture of torque and angle in operations such as fastener rundown.
- The 3053 produces a torque curve plot showing breakaway, restart and peak when used with a torque transducer.
- The pick-a-point feature gives instant access to statistics on any point on a curve.

Open Communication

- Export or import text files to/from database, word processing, or Microsoft® Excel® with DataMyte TrandSend™ software.
- Ability to move trend, capability or raw data between data collector and computer easily.
- Unload setup information, edit as text, and reload into data collector.
- Multiple level password protection for part setups and statistical information.

Downtime Recording

- Track machine downtime with built-in down-time recording feature in all 3000 models.
- Records machine status to nearest second, even during data collection operations.
- View downtime status of all machines on the data collector's Select screen.
- Maintain each machine's history, including downtime duration and start/stop times.
- Pareto chart of downtime causes helps determine critical problem areas.

Group charts

- Ideal for applications where multiple processes produce identical product, such as multi-spindle operations.
- Maintains individual process trend analysis; shows points closest to going out of control.
- Group chart stats report lets you quickly spot trouble areas hidden among characteristics.
- Characteristic skipping feature lets you select characteristics to skip during data collection.



The 3052 and 3055 data collectors are available with either two or five digital gage ports

Enhanced Attribute Capability

- Real-time piece and batch attribute data collection.
- Collect multiple defects per piece, plus location with each defect.
- Data collection via barcode wand, footswitch or keyboard.
- Ideal for incoming inspections, on-line defect analysis, lot control, roving audits and traceability requirements.

Virtually Unlimited Setups

- Number of parts to be set up limited only by memory capacity.
- Accommodates up to 999 characteristics per part, depending on part configurations.
- Subgroup size can vary from one to a maximum of 200 samples per subgroup.
- On-board setup editor lets operators create part setups in the data collector or in ASI DataMyte support software.

Rugged and Dependable

- All solid state; no rotating internal drive to jar loose under abusive conditions.
- Withstands a four-foot drop without shutdown or loss of data.*
- Survives grain and carbon dust, metal shavings, oil or grease, and daily wipe downs.
- Female connector ports reduce likelihood of shorted, bent or broken connector pins.

Other Features

- Memory capacity of 1000K or 2000K
- Eight languages built-in: English, French, German, Italian, Portuguese, Spanish, Swedish and one user-definable language.
- Interfaces with over 2000 gages from hundreds of manufacturers.
- Easy-to-read graphics and intuitive keypad functions simplify training and operation.
- Eight-hour rechargeable battery lets you work all day without changing batteries.

Contact your local DataMyte representative for a free demonstration of the 3000 data collector's capabilities at your site.



The 3053 can be used with gap and flush gages for assembly line quality audits.

**Drop test per Boeing Commercial Airplane Company. Equipment specification for 777, Everett, WA, 1993
(Drop test referenced with permission.)*

3000-Series Data Collector Specifications

Hardware

- Weight: 3.5 lb.
- Dimensions: 11.5" x 9.5" x 2.0"
- Construction: Case: ABS plastic; Keypad: silicon rubber
- Power supply: removable rechargeable NiCad battery and external AC charger/adaptor; 10-minute battery warning
- Display: 16-line x 40-character LCD
- Audible output: buzzer with volume control
- Numerical precision: 8 digits plus decimal point and sign
- A/D conversion: 12-bit resolution, .1% of full scale accuracy
- Bar code wand: reads UPC, bar code 39, Interleaved 2 of 5, Codabar, Code 128, EAN, Code 2 of 5, Code 93, and MSI. Pulse sample rate: 12.7KHz
- Connectors: 3053: 4 gage ports (2 analog and 2 digital)
3055: 5 digital gage ports
3052: 2 digital gage ports.
Other connectors, all models: network (except 3052), footswitch, printer, and power.
- Operating temp. range: 0-45°C (32-115° F); 10%-90% non-condensing humidity
- Standard shoulder strap
- Trends (runs, shifts, mixture, systematic variable, and instabilities) detected, including points outside control/engineering limits; audible/visual operator alert; operator prompt to enter assignable cause
- Ability to modify trend rules
- Up to 2 user-defined characteristic labels plus cause
- 16-character assignable cause labels
- Up to 10 subgroup labels
- Up to 10 piece labels
- Ditto feature for labels
- Auto enter feature for labels
- Label entry from barcode, keypad, and/or list
- Part identification: 32-character part name
- Up to 999 characteristics per part
- Each characteristic may have its own subgroup size
- Up to 5 part notes (descriptors) to operator
- Up to 5 characteristic notes (descriptors) to operator
- Multi-level, user-defined password protection
- Long form, short form, and ANOVA R & R studies
- 24-character data collector identifier
- Print screen
- Automatic label filtering
- Custom label prompting
- Capability stats disable option for out of control
- Setups and/or data transferable as simple text files

Charting and Reporting Features

- x-bar & range control charts and statistics
- x-bar & sigma control charts and statistics
- Multi-characteristic capability report
- Data summary
- Raw data report, suitable for transfer to spread sheets
- Histogram and statistics (Cp, CpK, Ppk, Cr, CpU, CpL [CpKs for upper and lower tails], offset, offset %, min, max, mean, range, sigma, 6-sigma spread, mean +3 sigma)
- Capability reports
- Short run charts and statistics
- Pareto charts, p-charts and statistics
- Charts can be automatically graphed as data is collected
- Trends and out-of-control points indicated on control charts
- Batch report printing
- Report selection by time/date range or label
- Group charts
- Pareto of downtime

Additional 3053 Features

- Torque curve plot
- Breakaway, Peak, Pulse, Restart torque algorithms
- Set torque algorithm with audible alarm
- Low-level analog gage interface, including LMI and Uryu pulse torque tools, and many others.
- Torque with angle

Specifications shown are subject to change without notice. All company and product names are trademarks of the respective companies.

Other Functions

- Enter, review, retake data
- Gage inputs from Mitutoyo, Trimos, Mini Trimos, Federal Maxum, Chicago Dial Indicator, Digitrix, Ono Sokki, RS 232 serial and many others
- Automatic date/time stamping of data
- Automatic scanning and recording of gage inputs
- Math (TIR, absolute value, square root, etc.) on gage inputs, keypad inputs, and previous readings



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