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Model 501 Data Collector With Torque Option

The rugged yet lightweight ASI DataMyte 501 is the ideal solution for torque audits, especially when a portable device is required. The 501 is designed to collect data from a wide variety of torque wrenches, torque transducers and rundown tools, including the new line of ASI DataMyte LightStar™ torque and angle wrenches. Easy-to-use with intuitive, menu-driven commands, the 501 features a large LCD visual interface, and an ergonomic design with keys oriented for both right- and left-hand operation. The contoured grip reduces operator fatigue and motion injuries.

Torque Applications

When used with LightStar™ wrenches, the Model 501 measures torque as qualified by detected angular rotation. The data collector includes three new algorithms -- angle restart, angle breakaway and torque at angle -- that let you customize applications for all types of joint mechanics.



Angle Restart captures torque as the fastener starts moving after overcoming static friction. This form of measurement is particularly useful when the effects of corrosion or locking adhesives need to be removed to more accurately assess clamp load.

Angle Breakaway captures the torque needed to set a fastener in motion. This is often referred to as "torque to turn." Unlike torque/time breakaway, anglebased breakaway is not subject to variations in operator technique.

Torque at Angle captures torque at a user-defined amount of detected rotation, for example, two degrees, past a torque threshold. This measurement strategy is useful in special applications where there is predictable bolt head or work piece rotation before thread rotation.

The algorithms in the Model 501 convert a torque transducer's analog signal to a digital value that represents the force applied. The LCD panel on the collector displays a torque curve plot for the joint being measured. The algorithm selects the desired point or a unique "Pick-a-Point" feature lets you select any point from the curve as the data value. In addition to residual torque, the 501 can be used for these applications:

- Real-time installation torque from DC/electric, air stall or impulse tools can be captured with Peak or Pulse strategies.
- Angle of rotation or pulse count between Snug and Peak may be captured concurrently with the appropriate transducer.
- Torque tool cutoff and angle encoder accuracy can be verified off-line.
- Hand assembly and rework operations can be performed where a fastener is to be driven
- to a given torque or is to be driven to a given angle past a given torque.

Support Software

ASI DataMyte offers two support software options for the 501. Each is used to create data collection part setups and to upload collected data. They are:

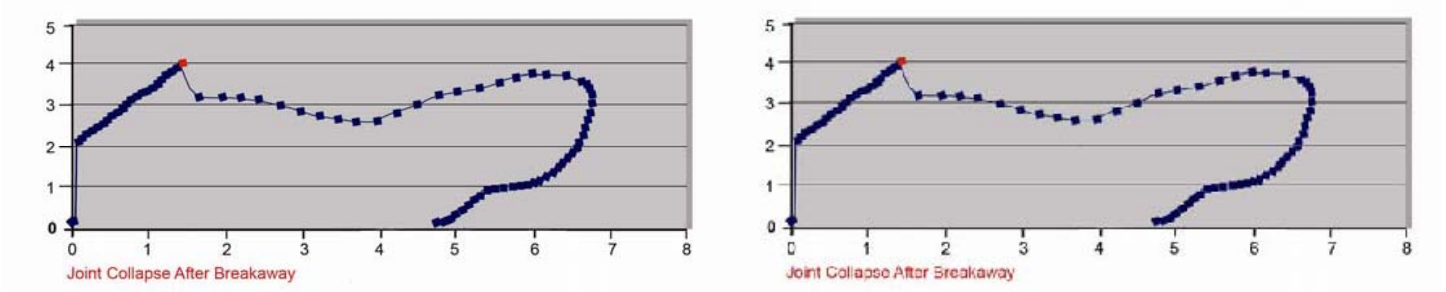
- The ASI DataMyte Setup Editor with RCSL which can also be used to transfer collected data directly into an ASI DataMyte Quantum database for further analysis and reporting.
- ASI DataMyte TranSend software which uploads collected data to ASI DataMyte Applied Stats and Analyst software, to standard spreadsheet programs such as Microsoft® Excel®, or as tab- or comma-delimited ASCII data files.

* U.S. Patent Pending, EP Patent Application No. 08831666.6

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Torque Curve Plot

The advanced firmware of the 501T data collector captures residual torque at actual fastener motion when used with an ASI DataMyte LightStar™ Series B torque wrench with solid-state gyro. The LCD panel on the collector displays a torque curve plot for the joint being measured, allowing the user to see the actual point at which fastener motion occurs. The raw torque, time and angle components of the curve, as well as all relevant configuration parameters, may be exported to and plotted in Microsoft® Excel®.



Specifications

Hardware

- Weight: 15.4 oz. (431.2 gm)
- Dimensions: 4.08 x 10.5 x 1.77 in. (10.3 x 26.6 x 4.5 cm)
- Construction: Case: ABS plastic. Keypad: Silicone rubber
- Power Supply: 2 AA 1.5V rechargeable batteries with external AC charger/adaptor; 8-hour battery life
- Display: 128x128 dot matrix LCD panel; backlit panel option
- Audible output: buzzer with volume and tone control
- Standard connectors: 1 serial, 1 remote buzzer output, 1 DC power in, 1 digital gage, 1 thumb/footswitch; torque module or analog module are optional
- Numerical precision: 8 digits
- Torque module accuracy: Voltage signal: 2.0mV/V, Dynamic: +/- 0.20%, Static: +/-0.10% (calibrated using a 350-Ohm bridge in a clockwise direction)
- Filter: 5-pole low pass, user programmable between 100Hz and 10kHz
- Sample rate: Up to 20kHz
- Data acquisition rate: Up to seven peak readings for separate characteristics per second

Specifications subject to change without notice.

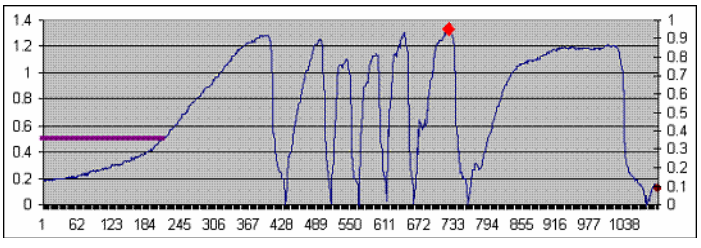
- Operating temperature range: 32-115°F, (0-45°C) 10-90% non-condensing humidity
- Keypad: Simple or alphanumeric
- Wrist strap and belt clip

Other Features

- Red/green/yellow dual LED alert
- Flash memory for upgrades
- Six languages: English, French, German, Italian, Portuguese, Spanish plus user-defined terminology
- Password protection
- Optional VIN check digit validation

Compatibility

- ASI DATAMYTE DataMetrics Setup Editor software, all versions
- ASI DATAMYTE TranSend software (version 4.0 or greater required for residual torque measurement)
- RCSL (Remote Client Serial Link), all versions



Key Points:

- Rugged and portable
- Ideal for confined spaces
- Torque curve plot
- Eight-hour battery life
- Visual and audible indicators
- Data can be exported to Excel spreadsheets
- Residual torque measurement
- Torque and angle measurement
- Dynamic torque measurement

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