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## TME **BT-1000** Automated Package Tester



### Seal Strength and Package Integrity Tester for Flexible Packages

The BT-1000 Automated Package Tester is designed to test flexible packaging and provide both seal strength and leak testing in one instrument. Control of critical variables and quantitative measuring methodology yields highly repeatable and precise results for proactive process control and quality documentation. IQ OQ PQ validation is available through TM Electronics. The BT-1000 will perform seal strength tests (burst, creep and creep-to-failure) on porous or non-porous flexible packages, and leak integrity testing on non-porous packages.

*Highly repeatable, quantitative results from clean, dry air tests that are easy to program and perform.*

*Eight test modes are standard for leak testing and seal strength testing on the same non-porous package. Models are available for HIGH PRESSURE or LOW PRESSURE applications.*

*The menu system allows easy input and storage of up to 40 programs, with data storage for up to 1000 test results.*

*Real time statistical analysis is accessible on demand, including graphical presentation of the burst graph for each individual test, for the highest level of process control.*

*RS232 computer connection is standard for data; Ethernet connectivity is available to allow data to be transmitted from the instrument to a LAN.*

*Standard fixtures are available for Closed Package Testing, Open Package Testing, and restrained package testing.*

*The TME BT-1000 Automated Package Tester conforms to ASTM and ISO-11607 guidelines. Calibration is NIST traceable.*

### Seal Strength Tests

**Burst Tests**

**Creep Tests**

**Leak Integrity Test**

**Security Keylock**

**Graphic Display**

**SPC Statistics**

**Control of Variables**

**Fast, Clean Tests**

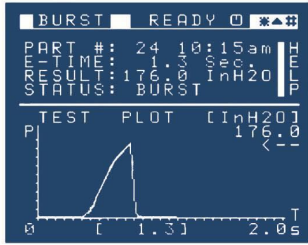
**Meets ASTM F-1140**

**Meets ASTM F-2054**

**Meets ISO-11607**

**TMElectronics, Inc.**

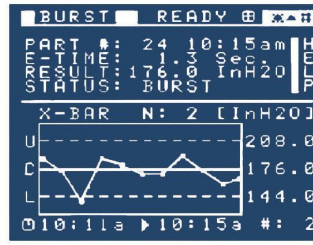
45 Main Street, Boylston, MA 01505 USA  
800-370-0501 or 508-869-6400



The BT-1000 graphically shows the characteristic burst curve for each test.



Accumulating test data are shown in histogram form to give a visual overview of your process.



Ongoing test data are shown on a statistical control chart for tighter process control.

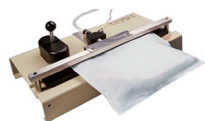
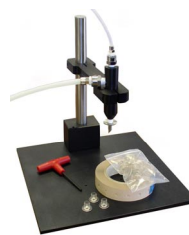
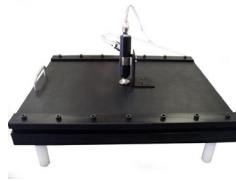


## Graphical and statistical analysis screens from the TM Electronics BT-1000 Package Tester

### SPECIFICATIONS

#### BT-1000 Automated Package Tester

Dimensions .....13"W x 15"D x 6 1/2" H  
 Power .....115V, 50/60Hz, 150 Watt  
 Controls.....Electronic Pressure Control  
                   Electronic Flow Control in 16 Steps for Porous and  
                   Airtight Package, Push Buttons, Keylock,  
                   Power ON/OFF Switch, Key Pad  
 Single Tests.....Burst, Creep, Creep-to-Failure, Leak  
 Dual Tests.....Creep/Leak, Creep/Burst, Leak/Burst,  
                   Leak/Creep-to-Failure  
 Display..... LCD,20 character x 16 line  
                   Alphanumeric/Graphic Display  
 Test Units..... PSIG, Inches of H<sub>2</sub>O  
 DATALOG Memory.....Saves Up to 1000 Test Results  
 PROGRAM Memory ..... Saves Up to 40 Test Programs  
 Statistics Display ... Mean and Range Control Charts with  
                   UCL & LCL, histogram, mean, standard deviation,  
                   max, min, range, number of tests  
 Printer Port ..... DB 25 Female connector for automatic  
                   output of current test results; Manual output of  
                   Test Setup Parameters, graphic plot, current  
                   results, data log, statistics  
 Auxiliary Output..... DB 25 Female connector for PLC,  
                   Aux. Start/Stop, custom connections  
 Communications Port..... DB 25 Male connector  
                   for Standard RS232 data string in ASCII format,  
                   compatible with PC & Windows systems. Output  
                   is automatic.  
 Calibration.....NIST Traceable  
 Timer Ranges..... 0.1 to 1000 Sec.  
 Pressure Range.....0.2-50 psig and 1-100 psi,  
                   OIL AND MOISTURE FREE CLEAN AIR  
 Overall Resolution ..... 0.5 In H<sub>2</sub>O



### OPTIONAL ACCESSORIES

**RESTRAINING PLATE FIXTURES** for leak testing pouches have semi-porous surfaces to stabilize expansion during pressurization without blocking any holes in the surface material.

Restraining plate fixtures for seal strength tests provide consistent stress loading on all seals.

**LA-05 FILTER DRYING ASSEMBLY** dries and removes water, oil and particulate matter from pressurizing air. The TME BT-1000 requires clean, instrument quality air in order to maintain the warranty on the instrument.

**TS-02 CLOSED PACKAGE TEST FIXTURE**, in conjunction with an entry system such as the TME Package-Port® system, allows you to test completely sealed flexible packages. A variety of probe sizes is available to further customize your test system.

**TS-01 OPEN PACKAGE TEST FIXTURE** provides a pneumatically driven clamp that will seal the open end of a flexible package during inflation testing. Both 12 and 24 inch clamp bar models are available

**TMElectronics, Inc.**

45 Main Street, Boylston, MA 01505 USA

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