

3M™ Series 100 Automated Integrity Test Device
Portable Membrane Filter Integrity Tester for the Beverage Industry



Tradition
Blended with
Innovation



The 3M™ Series 100 Automated Integrity Test Device

A hand-held portable integrity tester

The unit is designed to perform a pressure hold integrity test on membrane filter cartridges. This compact, battery powered system can be operated independently of any AC supply for up to 12 hours and should, for any reason the unit remain uncharged, retain all data in its memory for up to 6 months.

The microprocessor-driven 3M™ Series 100 Automated Integrity Test Device can be programmed with up to 19 different test protocols, allowing the user to store commonly used test parameters covering all housing and filter combinations in use. Each of the different protocols can be quickly accessed through a single key stroke, with up to 100 test results being automatically stored ready to be recalled and printed at a later date.



Using your 3M™ Series 100 Automated Integrity Test Device:

One of five standard languages can be selected for use with the 3M™ Series 100 Automated Integrity Test Device (English / French / German / Italian / Spanish). However, should you require an alternative language this can be factory programmed into the unit's memory at the time of manufacture.

The display allows you to either run a pre-programmed test protocol or access the general menu where you can program a test protocol, review data, or select the Service function menus. In the Main function menu, you can access any of the 19 stored programs, or 100 previously stored test results. Selection of the programming function allows you to modify or store new test protocols, with the unit automatically prompting you to enter all of the test parameters necessary to run a test.

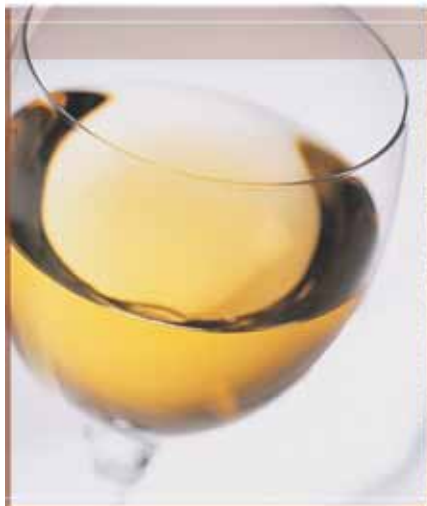
At any time a permanent record of any of the stored results can be printed out by linking the 3M™ Series 100 Automated Integrity Test Device to a PC with the supplied interface program and cable. Select the self test protocol, and the 3M™ Series 100 Automated Integrity Test Device will run an automatic self diagnostic program which checks all of its main electronics components. The Service function menu is protected by a code number access to avoid unauthorized data entry. This menu gives access to all of the internal parameters used during calibration and is also where user codes can be changed, the language can be chosen, the data and time can be entered, and the unit reset.

3M™ Series 100 Automated Integrity Test Device Technical Description	
Standard Operating Conditions	
Operating temperature range	37-99°F (3-37°C)
Maximum humidity	95% rel.
Protection	IP 53, Splash Proof
Electrical Specification :	
Batteries (Rechargeable)	4 x NiCad 1.2V
Battery Capacity	1400 m Ah, 4.8V
Battery Recharge Time	8h
Testing Duration (Yellow LED Flash)	7h
Normal life	7h-12h
Data retention (with Fully Charged Battery)	4 months
External Power supply	100-240V / 7.5V 200 MA
Data Handling :	
Connector	4 pol MIL - Busche with Dust Cap
Computer Interface	RS 232
Programming :	
Maximum number of stored test protocols	19
Number of stored results	100
Pressure Sensor :	
Pressure range	0... 4000 mbar (58 psi)
Accuracy	± 8 mbar (0.116 psi)
Pressure connector	Quick disconnect 3 mm stainless steel (STAUBLI™)
Housing :	
Housing Material	ABS plastic
Dimensions	210 x 105 x 45 mm (8" x 4" x 1.5" approx.)
Weight	520 g (1.1 lbs)
Display	2 x 16 Characters
Signal LEDs	Red, Green, Yellow
Charge Control LED	Red 16 Position Polycarbonate membrane keypad
Ordering Information:	
Product Number	7034501



Automated membrane filter testing made easy and affordable

- **Portable:** Hand-held, easy to use technology with long life battery back up
- **Simple:** Pass / Fail LED test status indicators
- **Advanced:** Microprocessor driven with P.C. interface program allowing data storage and printed record keeping
- **Recall:** Up to 100 previous test results can be recalled and printed
- **Flexible:** 19 commonly used test protocols can be stored in the units memory and accessed with a single key stroke
- **Reliable:** On-board self diagnostics ensure system reliability
- **Secure:** All programming is protected by code access



3M Purification Inc.
400 Research Parkway
Meriden, CT 06450, U.S.A.
Tel (800) 243-6894
(203) 237-5541
Fax (203) 630-4530
www.3Mpurification.com

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