

Dräger Quaestor automatic



The Dräger Quaestor automatic is a fully automatic, universal test device that can be conveniently operated by PC.



ST-9950-2006

Dräger Quaestor Automatic

Test capabilities

The Dräger Quaestor automatic can be used for testing the safety of a wide variety of breathing protection equipment:

- Full face masks
- Compressed air breathing apparatus
- Chemical protection suits
- Diving suits
- Closed circuit breathing apparatus (optional)

The most important features

- Fully automated leakage and function tests in the high-pressure, medium-pressure, and low-pressure (static) range
- Testing of inhalation and exhalation resistance of a breathing apparatus, as well as dynamic middle pressure with the aid of a built-in artificial lung (dynamic)
- Inflatable test head for reliable mask testing
- Complete testing of a compressed air breathing apparatus, including a pressure gauge accuracy test, in less than eight minutes
- Automated measurement of the acoustic low-residual-pressure warning by microphone
- Patented, automatic neck valve for maintaining the required volume under vfdb 0804 on low-pressure tests
- For testing of chemical protection suits, the Dräger Quaestor automatic not only handles inflation of the suit, but also automatic adaptation of pressure during the relaxation phase
- Breathing tests of lung demand valves is possible using a breathing adapter

PC-based test procedure

The testing parameters for the breathing protection equipment to be tested are lodged in the included software and will be verified automatically during the testing process. As a matter of course, parameters can be changed or added, also for testing other manufacturer's protection equipment. The test sequences as well as the results are depicted graphically on the PC user interface. After each performed test a corresponding test protocol is generated, which can be printed out if required. Furthermore, the testing history of the breathing protection equipment can be retrieved at any time for statistical needs.

Comprehensive service

As much as the fireman needs to depend on his personal protective equipment, the technician in the workshop needs to trust his Dräger test equipment device when testing breathing apparatus or chemical protection suits. Neither one can take a risk. But like the personal protective equipment after use, also the test device has to be serviced on a regular basis. That is the only way to guarantee the security of the wearer of personal protective equipment. The Dräger Service provides regular maintenance so that you can rely on test equipment any time.

The Dräger Quaestor automatic, manufactured at our Lübeck site, is suitable for leakage tests under vfdb guideline 0804.

TECHNICAL DATA

Dimensions:	407 x 348 x 863 mm (D x W x H)	
Weight:	40 kg	
Permissible temperature:	Storage:	- 10 to 60 °C
	Operation:	10 to 45 °C
Permissible air pressure:	800 to 1200 hPa	
Permissible humidity:	30 to 90% rel. humidity	
Compressed air supply:	6 to 9 bar	
Electrical power:	110/230 V, 50-60 Hz	
Power requirements:	About 250 VA	
Serial computer interface:	RS 232	

Performance parameters

Artificial lung with a nearly sinus-shaped breathing rhythm

Breathing rate:	1–50 l/min
Displaced volume:	max. 3.4 l
Maximum respiratory volume:	100 l/min

ORDER INFORMATION

Dräger Quaestor automatic	Consisting of: basic device, test head, power cable, connecting cable to PC, blue cover cap, "Quaestor automatic" software, instructions on CD, database for storing and administering test results	AG 02 234
Dräger Quaestor automatic F	Like Quaestor automatic AG 02 234, plus flow sensor for testing closed circuit breathing apparatus	AG 02 332
Dräger Quaestor automatic SV	Like Quaestor automatic AG 02 234, plus built-in high-pressure valve for testing PA pressure reducers with safety valves	AG 02 333
Dräger Quaestor automatic F/SV	Like Quaestor automatic F AG 02 332, plus built-in high-pressure valve for testing PA pressure reducers with safety valves	AG 02 334

Required for operation

PC, monitor, printer (specification as per current offering)	If there is a PC, then the recommended minimum configuration is: Intel Pentium or equivalent processor; operating system: Windows 98, NT (4.0), 2000, XP; clock frequency: at least 600 MHz; main memory: at least 64 MB; free hard disk space: at least 1 GB; VGA colour graphics card and colour monitor; free serial interface; CD drive	upon request
Accessories for the PC	Administration software: Drägerware, barcode scanner, and barcode labels, transponder and transponder readers	upon request

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