

## Alcotest<sup>®</sup> 7410<sup>Plus</sup> Alcotest<sup>®</sup> 7410<sup>Plus</sup> RS

Quick and  
reliable breath  
alcohol  
testing





The Alcotest 7410 product family is the most successful hand-held breath alcohol measuring instrument. Used on all five continents, for control of alcohol at workplaces in industry, for monitoring or medical diagnosis of patients and for traffic control by police authorities. More than 50,000 Alcotest 7410 are in use worldwide currently.

#### Features and Benefits of the Alcotest 7410<sup>Plus</sup>:

- quick and long-term stable DrägerSensor: short waiting time until first test, quick determination of the measured value, quick retest rate and small standard deviation
- low blowing resistance
- real-time clock with date and time
- measurements are also possible without cooperation of the person being tested by passive sampling: triggered by pressing a button and afterwards qualitative detection of alcohol
- data memory for more than 9,700 measurement results with date and time information: the stored data may be recalled menu-driven by using a button on the instrument
- statistical options
- protocol print-out by the Alcotest 7410 Printer
- three different power supply units: with alkaline batteries (up to 600 measurements), with rechargeable accumulator (up to 300 measurements) or motor vehicle connection 12 V
- charging station with indication of charging condition and overcharging protection for accumulator power supply unit.



Alcotest



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ST-945-2001

### The Alcotest 7410<sup>Plus</sup> RS offers you:

- the features and benefits of the Alcotest 7410<sup>Plus</sup>

### and additionally:

- a data interface (RS 232) for connection to a PC
- an input of person-specific data for a test and read-out of the up to 9,700 stored data sets with the Dräger PC Software "View 2000"
- evaluation, print-out and management of stored data.

The exceptional long-term stability of the DrägerSensor and the specific sampling system allows long calibration intervals for the Alcotest 7410<sup>Plus</sup> and Alcotest 7410<sup>Plus</sup> RS within the quality assurance. Several calibration systems are available for calibration. In addition you can let the calibration and care of your Alcotest 7410 be performed by our DrägerService.

## Technical data

Measuring principle	Electrochemical sensor
Measuring units	mg/L, ‰, % (further measuring units available)
Measurement range	0.00 to 1.50 mg/L; 0.00 to 3.00 ‰; 0.000 to 0.300 %
Display range	0.00 to 9.99 mg/L; 0.00 to 9.99 ‰; 0.000 to 0.999 %
Ambient conditions	For operation: - 5 to 45 °C / 23 to 113 °F (and at - 20 °C / - 4 °F but not for more than 30 min and only after being kept above 0 °C / 32 °F until use) For storage: - 40 to 65 °C / - 40 to 149 °F
Sampling	Blowing time: 4 to 12 s (depends on the intensity) Breath flow: > 6 L/min Breath volume: > 1.2 L (adjustable)
Measurement accuracy (max. error of repeatability with an ethanol standard)	0 to 0.5 mg/L: ± 0.03 mg/L 0 to 1.0 ‰: ± 0.05 ‰ > 0.5 mg/L: ± 5 % of measured value > 1.0 ‰:
Sensitivity drift	typically 0.6 % of measured value/month
Intervals before readiness for operation	1 <sup>st</sup> measurement approx. 15 s after determining a previous test result in range: up to 0.19 mg/L: 10 s > 0.95 mg/L: 90 s
Calibration interval	recommended 6 months (depends on required accuracy)
Dimensions	70 mm x 230 mm x 34 mm (W x H x D)
Weight	approx. 500 g

## Order list

Alcotest 7410 <sup>Plus</sup> (including power supply unit)	83 13 630
Alcotest 7410 <sup>Plus</sup> RS (including power supply unit)	83 13 690
Power supply unit:	rechargeable power supply unit 83 11 770 alkaline battery supply unit 83 15 690 motor vehicle connection 12 V 83 11 790
Mouthpieces (25 pieces):	with non-return valve 68 05 703 without non-return valve 68 05 700
Charging station 230 V	83 12 590
PC software "View 2000"	83 15 140
PC connecting cable (9 pole RS 232 interface)	83 13 250
Alcotest 7410 Printer	83 15 950
Alcotest 7410 case	83 14 210



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#### **DrägerService**

Dräger equipment must always be fully operational and safe. DrägerService offers a regular inspection service and is quickly available in the event of malfunction. Your equipment will be repaired and back in operation as quickly as possible. DrägerService facilitates the vital flow of information between client and manufacturer.

#### **Dräger Expertise**

Since 1889, Dräger has had an outstanding reputation for solving problems in the field of human breathing. Dräger has been deeply involved in the handling of gases, in particular hazard protection and the saving of life in medical and industrial emergencies. Many of the company's 8500 employees are active in research and innovation to ensure that the latest techniques and scientific advances are fully tested before their inclusion in new equipment.



#### **Dräger Worldwide**

The Dräger sales and service organisation is spread throughout the world. It comprises more than 25 subsidiaries and associated companies to ensure that Dräger is always within easy reach of its clients and in close contact with all important markets. Dräger's ever increasing market share demonstrates the company's international competitiveness and strength.

Dräger has subsidiaries in the following countries: Australia, Austria, Belgium, Bulgaria, Canada, China, Croatia, Czech Republic, Denmark, France, Great Britain, Hungary, Indonesia, Italy, Japan, the Netherlands, Norway, Romania, Singapore, South Korea, Slovenia, Slovakia, South Africa, Spain, Sweden, Switzerland, Thailand, Yugoslavia, USA. Additionally, Dräger is widely represented in Central and South America, Africa, the Middle East, the Far East and Eastern Europe.

#### **Quality and Environmental Management**

Our mission includes the continuous improvement of our Quality and Environmental Management Systems in accordance with ISO 9001 and ISO 14001.

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