

# Dräger Alcotest 6810 med



ST-76-2006

The Dräger Alcotest 6810 med is a special version of the proven Dräger Alcotest series. It has been designed for diagnostic applications, where the CE marking for medical products is necessary. In addition to the electrochemical DrägerSensors high quality and proven reliability, the Dräger Alcotest 6810 med offers a variety of features that ease daily practices within the medical field.



ST-1687-2005

Dräger  
Alcotest 6810 med

### Application areas

The Dräger Alcotest 6810 med has been adapted to determine breath alcohol concentrations especially in medical applications. It may be used, for example, to diagnose vascular injuries (about others in the urology during transurethral resections of the prostate) after previous application of an ethanol containing rinsing solution. It is also used for testing patients for previous alcohol consumption at the emergency reception area or before methadone substitution.

### Features

The speed and long-term stability of the electrochemical DrägerSensor leads to a short waiting time for the first measurement after the instrument has been turned on, a fast determination of the measured value and a small standard deviation. The illuminated instrument display with information such as test number, date, time, measurement result and error messages as well as the coloured LED and acoustical alarms guide the operator easily through the use of the instrument.

### Sampling

During the automatic measurement, which is activated by the breath sample, the breath flow is monitored and the minimum volume required is adjusted to ensure deep lung air is taken. The manually activated measurement makes measurements possible even with people who are not able to deliver intentionally a breath sample.

### Data storage

The integrated data memory can store 250 measurement results. Via the interface the results can be transferred into a PC after the measurement.

### CE marking as Medical Device

The Dräger Alcotest 6810 med has a CE marking according to the EU Directive 93/42/EEC for Medical Devices. According to this legislation, this CE marking is necessary for all applications involving "diagnosis, prevention, monitoring, treatment or alleviation of disease". The Dräger Alcotest 6810 med fulfils these requirements for applications such as during operations, at emergency reception areas or during methadone substitution.

## TECHNICAL DATA

Measuring principle	Electrochemical sensor
Measurement range	0 to 2.5 mg/L
Sampling conditions (automatic measurement)	At the end of the breath sample
	Breath flow: > 3 L/min
	Breath volume: > 0.3 L
Measurement accuracy	0 to 0.5 mg/L: $\pm$ 0.008 mg/L
(standard deviation with an ethanol standard)	> 0.5 mg/L: $\pm$ 1.7 % of measured value
Sensitivity drift	Typically 0.6 % of measured value per month
Cross sensitivity to anesthetic gases	None
Calibration interval	6 months
Functional test	Weekly (recommended)
Dimensions (W x H x D)	80 mm x 140 mm x 35 mm
Weight	Approx. 195 g
Electrical supply	2 x 1.5 V Type Alkaline (Mignon, LR6, AA), approx. 1500 measurements at room temperature, or 2 x 1,2 V NiMH rechargeable batteries (Mignon, LR6, AA)
Interface	RS 232 interface for data transmission to a PC
Classification	Measuring instrument: Class I with measuring function
as per Directive 93/42/EEC, Annex IX	Mouthpieces: Class I
UMDNS-Code	17-475

## ORDER INFORMATION

Dräger Alcotest 6810 med (Measuring instrument, 3 mouthpieces, batteries, hand strap and case)	83 19 080
Mouthpieces (100 pieces) with non-return valve	68 11 055
Set rechargeable battery, for use with rechargeable NiMH batteries (special battery cover, 2 rechargeable NiMH batteries)	83 18 565
Power supply for charging NiMH batteries inside of the Dräger Alcotest 6810 med	83 16 991
Ethanol standard solution 1,21 g/L for functional test (500 mL)	67 28 838
AlcoView, PC program for communication with the Dräger Alcotest 6810 med	83 17 915
PC connection cable	83 17 573