

Dräger Comparison: 6810 vs 7510

Feature	Alcotest 6810	Alcotest 7510
Measurement Principle	Electrochemical	Electrochemical
Measurement Range	0-250µg/100mL	0-300µg/100mL
Sampling	Fixed volume, End of breath, Passive or Manual	Fixed volume, End of breath, Passive or Manual
Display	LCD 24x41mm backlit	Full Graphic 35x45mm
Size	140x80x35mm	185x90x45mm
Weight	195g	430g
Operating Temperature	-5 to 50°C	-5 to 50°C
Batteries	2xAA Alkaline or NiMH Rechargeable	4x AA Alkaline or NiMH Rechargeable or Integrated Li-ion battery pack
Data Storage	2000 results	>5000 results
Accuracy	+/- 1.85% of measured value	+/- 1.7% of measured value
Ready For Use	6s	10s
Response Time	0µg/100mL < 3s 45µg/100mL <10s	0µg/100mL < 3s 45µg/100mL <10s
Recovery Time	22µg/100mL 20s 45µg/100mL 40s	0µg/100mL < 10s 45µg/100mL < 20s
Mouth Alcohol Detection	No	Yes (Optional)
Calibration	Wet or dry gas	Wet or dry gas
Calibration Period	6 monthly	6 monthly
OIML Approval	No	Yes
Printer	Yes (optical interface)	Yes (IR port)
Data Input	Limited (via pad buttons only)	Comprehensive - via buttons or external keyboard
Download to PC	Yes	Yes
GPS	No	Yes (Optional)
Vibration and Shock	Conforms to EN 60068-2-6 EN 60068-2-29	Conforms to EN 60068-2-6 EN 60068-2-29
FAA RF Isolation Class 6	No	Yes
CE marking	Directive 89/336/EC (electromagnetic compatibility)	Directive 89/336/EC (electromagnetic compatibility)