



The Alcohol Tester AT6880 (VM-ATAT6880) is a slim, design-patented digital breathalyser with a semiconductor sensor and orange-backlit display, simultaneously reading % BAC, ‰ BAC, and mg/l across a detection range of 0.000–0.199% BAC. Response time is within 5 seconds after a warm-up of under 10 seconds. At 116 × 45 × 15mm and powered by 2× AAA batteries, it is suited to personal

use, occupational screening, and workplace safety applications.

Triple-Unit Simultaneous Readout

The AT6880 is a compact digital breathalyser built around a design-patented semiconductor alcohol sensor, delivering breath alcohol concentration results across three measurement units — % BAC, ‰ BAC, and mg/l — simultaneously on a single orange-backlit display. Displaying all three units at once removes the need to toggle between modes or manually convert readings, which is particularly useful in occupational health and fleet management screening contexts where readings may need to be cross-referenced against different regulatory thresholds. The orange backlight ensures the display is clearly readable in low-light conditions — vehicle cabs, warehouses, evening workplace checks — without requiring the user to adjust settings. The detection range of 0.000–0.199% BAC (equivalent to 0.000–1.990‰ BAC and 0.000–0.995 mg/l) covers the full range relevant to personal monitoring and routine occupational screening.

Fast Response and Practical Power Management

After a warm-up period of under 10 seconds, the AT6880 delivers a result within 5 seconds of breath sample collection — a fast response that supports efficient screening in high-throughput settings. The auto power-off function conserves battery life between tests, and the low battery indicator provides advance warning before power failure. The fast resume time means the unit is ready for consecutive tests without extended waiting between subjects, making it practical for screening multiple individuals in sequence. The AT6880 is powered by 2× AAA alkaline batteries (not included) and operates across an ambient temperature range of 5–40°C.

Compact Design and Appropriate Use

At 116 × 45 × 15mm, the AT6880 is one of the slimmest breathalysers in its class — easily carried in a jacket pocket, stored in a vehicle compartment, or included in a workplace safety kit without adding bulk. It is appropriate for personal breath alcohol monitoring, pre-shift occupational screening, and routine workplace safety checks. As a semiconductor-based device, the AT6880 is

designed for screening purposes; for legally evidential breath alcohol testing, an electrochemical fuel cell breathalyser is recommended. Available in South Africa from Vital Medical.

TECHNICAL SPECIFICATIONS TABLE

Specification	Detail
Model	AT-6880
SKU	VM-ATAT6880
Type	Digital breathalyser
Sensor	Semiconductor (design patented)
Detection Range	0.000-0.199% BAC / 0.000-1.990‰ BAC / 0.000-0.995 mg/l
Display Units	% BAC, ‰ BAC, mg/l (simultaneous)
Display Backlight	Orange
Warm-up Time	Within 10 seconds
Response Time	Within 5 seconds
Auto Power-off	Yes
Low Battery Indicator	Yes
Power	2 × AAA alkaline batteries (not included)
Operating Temperature	5-40°C
Dimensions	116 × 45 × 15mm
Includes	Tester, user manual

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