Accurate Measurement of Breath Alcohol Concentration

Compact breathalyzer for a wide variety of applications in roadside testing, workplace safety, and the rehabilitation programs

AlcoQuant® 6020 plus
AlcoQuant® 6020 plus – the reliable companion in all alcohol-screening situations

Accurately Measured

The new generation with even easier operation and many new functions
With its remarkably intuitive menu, the new AlcoQuant® 6020 plus is even easier to use. Several new functions and configuration options ensure that the device is perfectly suited for practical use.

Lightweight, fast, simple, and reliable
The device can be operated with a single hand via three keys. The entire menu navigation is self-explanatory and immediately understandable with no learning phase. All messages and readouts are shown on the display in plain language. Optimal readability in both complete darkness and strong sunlight is guaranteed. The self-monitoring function, ergonomic design, and outstanding sensor technology ensure reliable results in any situation.
AlcoQuant® 6020 plus

The AlcoQuant® 6020 plus is extremely versatile and meets all applicable requirements

Police - Customs - Court
Along with its classic use in roadside testing, the device has numerous applications in all areas of official alcohol screening.

Workplace Safety
Statutory regulations and the associated duties of care make the AlcoQuant® 6020 plus an ideal addition to your existing occupational health and safety program.

Transport and Road Safety
The quick determination of a driver’s blood alcohol content in shipping, air traffic, and long-distance traffic is an important issue, especially in the transport of passengers and hazardous materials.

Clinics
With the AlcoQuant® 6020 plus, subjects can be screened quickly and easily with maximum hygiene, making it especially well suited for community healthcare centers and rehabilitation clinics.
Wide Range of Functions

Simple and intuitive

User-friendly

• Very easy to configure
• Home-button function
• Practical soft-key function
• Straightforward menu

Simple data management

• Freely editable start text
• Flexible data structure
• Data storage with the option of additional data, such as temperature, breath volume, etc.
• Exceptionally fast data transfer via USB and RS 232 interface
• Data can be displayed in all languages
• Comprehensive Data Manager Software
• Adaptable PDF report
• Excel export function available

Intuitive Operation

Softkey Softkey

Home

PC Connection

Rapid Data Transfer

USB

RS 232
Highly Robust Design
Durable and reliable

- Robust construction
  - IP 54 certified for water and dust resistance
  - IK 03 impact strength
  - Mouthpieces with certified biocompatibility

- Certified Safety
  - Complies with EU standard EN 15964
  - Approved by acknowledged test methods
  - Reliable operation
  - Maximum device safety
AlcoQuant® 6020 plus

Optimal Handling
Reliable and practical

- All data at a glance - large display
  - Extra-large numbers for reliable readouts
  - Very high resolution
  - Intuitive presentation of all values
  - Backlit display
  - High contrast in bright sunlight

- Easy to use - only 3 keys
  - Large and simple keypad
  - Backlit keys

- Easy to handle
  - Ergonomic design
  - Single-handed operation

- Economical and battery-efficient
  - Approx. 2,000 measurements with one set of batteries
  - Energy-saving management
  - Optimized battery life
  - Optional NiMH rechargeable battery

Optional wireless thermal printer
- Wireless data transfer to the printer, mobile printing - directly on the spot

Backlit Keypad
Easy to read in Sunlight
Optional Wireless Printer
Optimal Availability
Cost-efficient, customized, reliable

**Configuration for every requirement**
- Flexibility through simple update function
- Pre-configurable according to customer's requirements

**Self-calibration**
- Dry-gas or wet-bath calibration
- Test mode to the thousandth decimal place
- Detailed calibration instructions

**Simple servicing**
- PIN-protected
- Flow test mode
- Quick updates via USB
- Detailed servicing instructions

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**Wet-Bath Calibration**
34°C 93,2 °F

**Dry-Gas Calibration**
1100 X

**Fast Calibration**
EnviteC has been developing and producing highly specialized medical devices for the healthcare industry for more than 20 years. Since 2006, EnviteC has been a subsidiary of the technology company Honeywell, one of the world’s largest manufacturers of sensors.

**Made in Germany**

Our cutting-edge research and development work is consistently in line with market needs. All development activities and the majority of production are carried out in Germany - with exceptional quality. EnviteC proves that it is possible to not only develop, but also manufacture top-quality products cost effectively in Germany.

**At the technological forefront**

EnviteC has its own development department, which is a core part of the company, and cooperates closely with technology institutes in Germany and abroad.

**Contact us!**

Do you have any questions or special requirements? Would you like to request a consultation appointment or a quote? We look forward to hearing from you.

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**Technical specifications** *AlcoQuant® 6020 plus*

<table>
<thead>
<tr>
<th>Measuring modes:</th>
<th>Active and passive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring range:</td>
<td>0 to 5.5 ‰ BAC*</td>
</tr>
<tr>
<td>Accuracy:</td>
<td>Max. measuring error in relation to the ethanol standard (in the temperature range of -5 °C to 45 °C)</td>
</tr>
<tr>
<td>- Range 0 to 1 ‰:</td>
<td>± 0.05 ‰ absolute</td>
</tr>
<tr>
<td>- Range &gt; 1 to 2 ‰:</td>
<td>± 5 % of measured value</td>
</tr>
<tr>
<td>- Range &gt; 2 ‰:</td>
<td>± 10 % of measured value</td>
</tr>
<tr>
<td>Ambient conditions:</td>
<td>-10 °C to +50 °C</td>
</tr>
<tr>
<td>- Temperature range - storage:</td>
<td>-25 °C to +70 °C</td>
</tr>
<tr>
<td>- Optim. storage temperature (sensor):</td>
<td>0 °C to +25 °C</td>
</tr>
<tr>
<td>- Ambient pressure:</td>
<td>600 to 1400 hPa</td>
</tr>
<tr>
<td>- Ambient humidity:</td>
<td>20 to 98 % r.h.</td>
</tr>
<tr>
<td>- Minimum expiration volume:</td>
<td>1.2 liters</td>
</tr>
<tr>
<td>Batteries or rechargeable battery (optional):</td>
<td>4 x LR6 (AA) Alkaline Mignon (recommended: Duracell® Procell®) or EnviteC rechargeable battery NiMH 4.8V (4x2100 mAh)</td>
</tr>
<tr>
<td>Battery charger (optional):</td>
<td>Protection class II</td>
</tr>
<tr>
<td>- Input: AC 100-240 V/50-60 Hz/93 mA</td>
<td></td>
</tr>
<tr>
<td>- Output: DC 5.6 V/500 mA/2.8 VA</td>
<td></td>
</tr>
<tr>
<td>Charging time:</td>
<td>Approx. 4 hours</td>
</tr>
<tr>
<td>Number of measurements per battery pack/accumulator charging</td>
<td>Approx. 2,000 measurements, depending on battery type and ambient conditions</td>
</tr>
<tr>
<td>Device interface:</td>
<td>USB and RS-232 interface; data can be transferred to a PC</td>
</tr>
<tr>
<td>Optional:</td>
<td>Wireless interface (IEEE 802.15.1) for usage with wireless printer</td>
</tr>
<tr>
<td>Dimensions (L x W x H):</td>
<td>195 mm x 60 mm x 47 mm</td>
</tr>
<tr>
<td>Weight:</td>
<td>275 g incl. batteries</td>
</tr>
<tr>
<td>Protection class:</td>
<td>IP 54</td>
</tr>
<tr>
<td>Impact strength:</td>
<td>IK 03</td>
</tr>
<tr>
<td>Miscellaneous Ready to measure after switching on:</td>
<td>approx. 6 sec.</td>
</tr>
<tr>
<td>Ready to measure after 0‰ measurement:</td>
<td>approx. 2 sec.</td>
</tr>
<tr>
<td>Ready to measure after 1‰ measurement:</td>
<td>approx. 5 sec.</td>
</tr>
<tr>
<td>Sensor type:</td>
<td>E100 electrochemical measuring cell</td>
</tr>
<tr>
<td>Cross sensitivities:</td>
<td>Negligible for other substances, e.g. acetone, etc.</td>
</tr>
<tr>
<td>Measurement units:</td>
<td>Configurable by user: ‰, mg/l (additional upon request)</td>
</tr>
<tr>
<td>Input:</td>
<td>Three-key operation</td>
</tr>
<tr>
<td>Power-saving mode:</td>
<td>Menu settings for automatic device switch-off and backlighting switch-off (&quot;auto-off&quot;)</td>
</tr>
<tr>
<td>Display:</td>
<td>Backlit, fully graphic</td>
</tr>
<tr>
<td>Data storage:</td>
<td>Stores 9,999 measured values with date and time</td>
</tr>
<tr>
<td>Mouthpieces:</td>
<td>Single-use EnviteC mouthpiece (Types S and D)</td>
</tr>
<tr>
<td>Software:</td>
<td>PC software for statistical analysis, data transfer, and logging</td>
</tr>
<tr>
<td>Calibration:</td>
<td>Every six months</td>
</tr>
<tr>
<td>Standard:</td>
<td>DIN EN 15964</td>
</tr>
</tbody>
</table>

All specifications apply to standard conditions:
- Ambient pressure 1013 hPa, 23°C dry ambient air.

*AlcoQuant 6020plus measures breath alcohol concentrations. The blood alcohol concentrations (BAC) have been calculated using a conversion factor of 1:2100 (Germany) in the device. It should be noted, that the conversion factor may varies by country.