



# AlcoTrue® M

## Technical specification

## AlcoTrue M – technical specification

• <b>Principle of measurement</b>	long life electrochemical sensor with high precision intelligent microprocessor sampling system
• <b>Breath sample</b>	controlled blow volume and time, default 1,2L
• <b>Measurement modes</b>	Active mode Fast mode Passive mode Mouth alc. mode Scanning mode
• <b>Measurement range</b>	
Breath alcohol concentration (BrAC)	0.00 to 2.6 mg/L (Ethanol mass per breath volume at 34°C and 1013 hPa.)
Blood alcohol concentration (BAC)	0.00 to 5.50 % (Ethanol mass per blood volume resp. mass at 20°C and 1013 hPa)
This data is given using a conversion factor of 2100:1 between breath - and blood alcohol concentrations. Other conversion factors are available upon request.	
• <b>Ambient Conditions</b>	
For operation	-5 to 50°C 10 to 100 % R.H. (non-condensed) 600 bis 1400 hPa
For storage	-20 to 65°C 10 to 100 % R.H. (non-condensed) 600 to 1400 hPa
• <b>Measurement accuracy / Reproducibility with an ethanol standard</b>	
0 to 0.476 mg/L	0.008 mg/L
> 0.476 mg/L to 1mg/L	4 % of measured value
> 1 mg/L	8 % of measured value
0 to 1‰	0.017 ‰
> 1‰ to 2‰	4 % of measured value
> 2 ‰	8% of measured value
• <b>Sensitivity drift of measured value/month</b>	
Typically 0.5%	
• <b>Ready for operation</b>	After switching on approximately 6 seconds
• <b>Applied part (Mouthpiece)</b>	Hygienic mouthpiece (Type "S") with in build non-return valve and water trap
• <b>Calibration interval</b>	6 Months with automatically reminder

• <b>Calibration type</b>	Wet gas (default) Dry gas Flow calibration												
• <b>Result format and unit</b>	digital in green/yellow/red and in mg/L BrAC (default) or in ‰ BAC. Other units/ limits can be selected via authorized services												
Configurable units:	<table border="0"> <tr> <td>µg/L</td><td>g/210L</td></tr> <tr> <td>µg/100mL</td><td>µg%</td></tr> <tr> <td>%</td><td>g/L</td></tr> <tr> <td>g/100mL</td><td>mg/100mL</td></tr> <tr> <td>mg%</td><td>mg/mL</td></tr> <tr> <td>P/A/F</td><td>P/F</td></tr> </table>	µg/L	g/210L	µg/100mL	µg%	%	g/L	g/100mL	mg/100mL	mg%	mg/mL	P/A/F	P/F
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µg/100mL	µg%												
%	g/L												
g/100mL	mg/100mL												
mg%	mg/mL												
P/A/F	P/F												
• <b>Language</b>	Configurable Multilanguage user menu, English (default) Other available country specific languages e.g German, French, Spanish, Dutch, Italian, Polish, Serbian can be configured by authorised personnel												
• <b>Dimensions</b>	185mm x 55mm x 40mm												
• <b>Weight</b>	approx. 240 g including 4x 1.5v Alkaline batteries approx. 195 g including Li-ion battery												
• <b>Electrical supply</b>	<p>Internal batteries:  <b>4 x 1.5V Type Alkaline</b>  (Mignon, LR6, AA)  Typ. ≤ 2100 measurements at room temperature  (Using Active mode)</p> <table border="0"> <tr> <td>Operating temperature</td><td>-20 to 65°C</td></tr> <tr> <td>Storage temperature</td><td>-40 to 65°C</td></tr> <tr> <td>or</td><td></td></tr> </table> <p><b>3.7V, 2200mAh Rechargeable Li-ion type</b>  Typ. ≤ 2100 measurements at room temperature  (Using Active mode)</p> <table border="0"> <tr> <td>Charging temperature</td><td>0 to 45°C</td></tr> <tr> <td>Operating temperature</td><td>-20 to 60°C</td></tr> <tr> <td>Storage temperature</td><td>-20 to 60°C</td></tr> </table>	Operating temperature	-20 to 65°C	Storage temperature	-40 to 65°C	or		Charging temperature	0 to 45°C	Operating temperature	-20 to 60°C	Storage temperature	-20 to 60°C
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or													
Charging temperature	0 to 45°C												
Operating temperature	-20 to 60°C												
Storage temperature	-20 to 60°C												
• <b>Max power consumption of device by Li-ion charging</b>	600mA, 5V DC												
• <b>Device Interface</b>	USB												
• <b>Hardware test procedure</b>	automatically self-test procedure at device start up												
• <b>Warnings information</b>	acoustic and visual (configurable) Different sound/color indication by negative and positive measurement result												

- **Device adjustments** PIN protected service menu access
- **Degree of Protection** IP 43 (IPX3 protection against spraying water acc IEC 60529)
- **Auto Power OFF** After 3 minutes
- **Display** 1,77" colour display
- **Data memory** 35 000 tests results with date/time, calibration status
- **CE-marking** 93/42/EEC, 2004/108/EC
- **Standards**  
**IEC 60601-1 (3th edition) - certified**  
IEC 60601-1-2:2007, EN61326:2006  
IEC 60068-2-6:2007, IEC 60068-2-27:2008,  
IEC 60068-2-64:2008, IEC 68-2-32:1975 +  
A1/A2:1980, EN 60529:1991 +A1:2000

## Order list

	Order number
<b>Standard Package</b>	5040112002
<ul style="list-style-type: none"> <li>- AlcoTrue® M Device</li> <li>- 25 individually packed mouthpieces (S-Typ)</li> <li>- 4 x AA Alkaline batteries (LR6, MN1500)</li> <li>- Alkaline batteries case</li> <li>- Instructions for use</li> <li>- Carrying case, small</li> </ul>	
<b>Optional</b>	
* Rechargeable Li-ion battery	4040112003
* USB Li-ion battery charger (EU plug)	4040112006
* USB Li-ion battery car adapter	4040112004
* USB cable	1020122057
* Carrying case, large	4040112015
* PC Software including USB data cable	4040112017
<b>* AlcoPrint P Set</b>	4040112007
<ul style="list-style-type: none"> <li>- AlcoPrint P mobile thermal printer</li> <li>- Power supply(EU plug)</li> <li>- AlcoPrint P data cable</li> <li>- Car adapter</li> <li>- Paper roll (1 piece)</li> </ul>	
<b>AlcoTrue® M Accessories</b>	Order number
Mouthpiece, 25 hygienic pieces, individually packed (S-Typ)	4040121001
Rechargeable Li-ion battery, 3.7 VDC, 2200 mAh	4040112003
Li-ion battery charger (EU plug), 5 VDC, 600 mA	4040112006
Alkaline batteries, 4x 1.5v, Mignon, LR6,AA	4040511001
Alkaline batteries case	3040122012
Carrying case, small	4040112005
Instructions for use AlcoTrue P	4040112014
<b>AlcoPrint P Accessories</b>	Order number
- AlcoPrint P Printer	4040112007
- Power supply(EU plug)	4040112009
- Car adapter	3040122004
- AlcoPrint P data cable	3040122011
- Paper roll (5 pieces)	1040122100

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Version: EN

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