



AlcoTrue[®] M

Technical specification

AlcoTrue M – technical specification

- **Principle of measurement** long life electrochemical sensor
with high precision intelligent
microprocessor sampling system
- **Breath sample** controlled blow volume and time, default 1,2L
- **Measurement modes** Active mode
Fast mode
Passive mode
Mouth alc. mode
Scanning mode
- **Measurement range**

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.
- **Ambient Conditions**

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
- **Measurement accuracy / Reproducibility with an ethanol standard**

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
- **Sensitivity drift of measured value/month**
Typically 0.5%
- **Ready for operation** After switching on approximately 6 seconds
- **Applied part (Mouthpiece)** Hygienic mouthpiece (Type “S”)
with in build non-return valve and water trap
- **Calibration interval** 6 Months with automatically reminder

- **Calibration type** Wet gas (default)
Dry gas
Flow calibration
- **Result format and unit** 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:

µg/L	g/210L
µg/100mL	µg%
%	g/L
g/100mL	mg/100mL
mg%	mg/mL
P/A/F	P/F
- **Language** 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
- **Dimensions** 185mm x 55mm x 40mm
- **Weight** approx. 240 g including 4x 1.5v Alkaline batteries
approx. 195 g including Li-ion battery
- **Electrical supply** Internal batteries:
4 x 1.5V Type Alkaline
(Mignon, LR6, AA)
Typ. ≤ 2100 measurements at room temperature
(Using Active mode)
Operating temperature -20 to 65°C
Storage temperature -40 to 65°C
or
3.7V, 2200mAh Rechargeable Li-ion type
Typ. ≤ 2100 measurements at room temperature
(Using Active mode)
Charging temperature 0 to 45°C
Operating temperature -20 to 60°C
Storage temperature -20 to 60°C
- **Max power consumption
of device by Li-ion charging** 600mA, 5V DC
- **Device Interface** USB
- **Hardware test procedure** automatically self-test procedure at device start up
- **Warnings information** 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
Standard Package	5040112002
<ul style="list-style-type: none"> - AlcoTrue® M Device - 25 individually packed mouthpieces (S-Typ) - 4 x AA Alkaline batteries (LR6, MN1500) - Alkaline batteries case - Instructions for use - Carrying case, small 	
Optional	
* 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
* AlcoPrint P Set	4040112007
<ul style="list-style-type: none"> - AlcoPrint P mobile thermal printer - Power supply(EU plug) - AlcoPrint P data cable - Car adapter - Paper roll (1 piece) 	
AlcoTrue® M Accessories	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
AlcoPrint P Accessories	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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