Technical Specifications

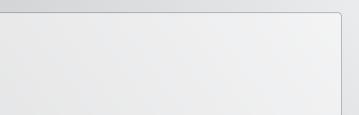| Product	Vivatmo pro	Vivatmo me
Intended use	Professional	Professional / Home
REF	A-661-228-005	A-661-228-004
Standard packaging	Vivatmo pro base station, power supply, handheld with protective cap, rechargeable battery, manual	Vivatmo me device, 5 disposable mouthpieces, batteries, protective cap, manual
Test		
Test duration	Continuous expiration for 12 seconds Start-up 60 s / Time-to-result 3 s / Regeneration time < 90 s	
Test execution feedback	Handheld: Blinking light Base station: Graphical incentivation (2)	Blinking light
Hardware		
Display	Handheld: Digital LCD display Base station: 7 inch 16:10 Touchscreen, 1024 x 600 pixel	Handheld: B/W LCD
Interfaces	Ethernet, USB (2 ports)	No
Data transfer	Handheld: Bluetooth® LE Smart, frequency band 2,4 GHz (from handheld to base station)	Bluetooth® LE Smart, frequency range 2,4 GHz (from handheld to smartphone)
Network connection	Ethernet 10/100MB, WLAN 2.4 GHz b/g/n	No
Power	Handheld: Rechargeable Li-ion battery (induction charging) Base station: 100 – 240 VAC, 50 – 60 Hz	4 AAA batteries 1.5 V
Weight & Dimensions	Handheld: 170 g / 4,0 x 5,4 x 22,4 cm Base station: 1350 g / 16,0 x 21,3 x 26,5 cm	170 g / 4,0 x 5,4 x 22,4 cm
Sensor		
Type	Chemical field-effect transistor	Chemical field-effect transistor
Measurement range	5-300 ppb	5-200 ppb
Linearity	95%	
Accuracy	$\pm$ 5 ppb for 50 ppb, $\pm$ 10% for $\geq$50 ppb expressed as the upper confidence limit of 95%	
Precision	$\pm$ 5 ppb for 50 ppb, < 10% for $\geq$50 ppb expressed as 1 SD for replicate measurements with the same instrument	
Consumables		
Mouthpiece	Oxycap: FeNO test Level 0: Quality Control test	Oxycap: FeNO test
Duration	within 15 minutes after opening (max 5 measurements)	within 15 minutes after opening (max 5 measurements)
Data Management		
Memory	Handheld: 1.000 tests Base station: 15.000 tests	1.000 tests
Smartphone app	No	Vivatmo app (Android and iOS)
Printer connection	USB or wireless	No
Integration with EMR	HL7 or GDT	No
File export	CSV or PDF	PDF (via app)
Environmental Conditions		
Temperature	Usage: +15°C - 35°C / Storage: +5 °C - 40 °C	
Humidity	Usage 15 % - 85 % / Storage: <85 % relative air humidity (no condensing)	
Air pressure	780 hPa - 1100 hPa	
Ambient NO concentration	< 200 ppb	
Security & Quality Standards		
ME handheld with internal power supply, tested according EN 60601-1 - CISPR 11 Group 1 (battery operated) - IEC 61000-4-2, IEC 61000-4-3 (battery operated)		

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