

bluepoint MEDICAL

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Delivery note

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 Contact: A. Riemer
 phone: 038823-548-818

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Reference	Order confirmation 2021-40781	Ausland. StNr	
Cust. Ref.	Cathy Green	Your VAT No.	GB287389593
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Dear Ladies and Gentlemen,

thank you very much for your order. According to our terms and conditions we confirm your order hereby.

Pos.	Article No.	Description	date of deliv	Qty. Pqty
1	99993	RMA 2019-0349 VM-2500-M Vet. SN:A1711150006	28.06.2021	1 pcs
2	13090532002	IRMA CO2, Lemo IRMA CO2, Lemo connector+ 4pin Adapler Cable S/N: IR00007137 consisting of 130905320 IRMA CO2, Lemo 02EK 140901420 CT Lemo - IRMA Adapter 01	28.06.2021	1 pcs. 1 pcs 1 pcs
3	99995	Time needed for repair 1/4 Hour	28.06.2021	3 pcs.

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A member of the bluepoint group

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Ust-Nr./VAT-No. DE 246 167 530

Trade register: Schwerin Reg.-No.: HRA 2500

Service protocol CapnoTrue AMP/ASP/MG

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Customer error description:

not recognising airway adapter

Bluepoint service error analysis:

Name	DR		
Screw locking:	☒ yes	☐ No	Software version: 1.1.6
Power supply connector:	☒ male, black 	☐ male, metal 	☐ female, black 
Gas outlet:	☐ back	☐ top	☒ no CapnoTrue®ASP
Analysis result:	Check CO2 Adapter -> IRMA defect		

Actions for repair:

SW update to version: (regularly carried out from v5.9) ☒ HW update: (ASP gas outlet is regularly moved to top housing: Mod.4) ☒ no ☐ n/a

24h load test performed (regularly carried out if main PCBA is replaced) : ☐ yes ☒ no ☐ n/a

Actions for repair and replaced parts (Name, REF, SN):

IRMA, 13090532002, SN: IR00007137

Comment to customer:

Test Result (detailed test see next pages)	☒ Pass AMP/MG: Step 1-5+7, ASP: Step 1-7	☐ Fail Don't use device to monitor patients!
Comments:		
25.06.2021	Heim	
Date	Tester	

Model	Device Serial Number	RMA number	Date of analysis
V41-2500-11 Vd.	A1711150006	2019-0349	24.06.2021

Service protocol CapnoTrue AMP/ASP/MG

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Test step	Acceptance criteria	Result	comment
1. Visual inspection			
1.1) Housing, Display, Keypad	No damages or defects	☒ pass ☐ fail	
1.2) Sensors and cable	No exposed optical components, cables or other damages to the sensor	☒ pass ☐ fail	
1.3) External power supply (cable+ connector)	- No damages or defects. - Output voltage: 5,6 – 6,2V. - Electrical test (e.g. SECUTEST VDE 0751) is passed.	☒ pass ☐ fail	
1.4) Label + transparent protective foil	Label and the transparent protective foil are fixed clean to the back of the device.	☒ pass ☐ fail	
1.5) Screw lock	Fixed to upper right-hand screw	☒ pass ☐ fail	
2. Power Supply Options (AA batteries, Li-Poly rechargeable battery, external power supply) Test procedure: switch on with each supply option (see test steps 2.1 – 2.5) >perform Measurements: SpO ₂ at finger; etCO ₂ by breathing through airway adapter > switch off			
2.1) Only 4xAA Batteries	Battery symbol is displayed. Proper operation (device is providing SpO ₂ & CO ₂ reading)	☒ pass ☐ fail	
2.2) Only Li-Poly	Battery symbol is displayed. Proper operation (device is providing SpO ₂ & CO ₂ reading)	☒ pass ☐ fail	
2.3) Only ext. power supply	Power supply symbol is displayed. Proper operation (device is providing SpO ₂ & CO ₂ reading)	☒ pass ☐ fail	
2.4) ext. power supply + Li-Poly	Charging symbol is displayed. Proper operation (device is providing SpO ₂ & CO ₂ reading).	☒ pass ☐ fail	
2.5) No sensors are connected to the device. Switch on with 4xAA Batteries with <4.1V.	Low battery alarm (visual and audible)	☒ pass ☐ fail	
3. SpO₂-Function at simulator (Fluke Index 2, SpO₂ = 82%, Pulse rate = 75bpm, R-curve=BPM)			
3.1) SpO ₂ at simulator set point: 82%	82% SpO ₂ (+2 digits)	☒ pass ☐ fail	reading SpO ₂ : 82 %
3.2) Pulse rate at simulator set point: 75bpm	75 beats/min (+1 digits)	☒ pass ☐ fail	reading PR: 75 bpm
3.3) SpO ₂ low alarm (at default low limit setting: 85%)	Audible and visual	☒ pass ☐ fail	
Model	Device Serial Number	RMA number	Date of analysis
VMI-2500-11 Vd	A171115 0006	2019-0349	24.06.2021

Service protocol CapnoTrue AMP/ASP/MG

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edgas
Mit O2
Profgas
25.06.21
DR

Test step	Acceptance criteria	Result	comment
4. CO ₂ -Measurement (CO ₂ values at breath simulator: CapnoCheck Program 1, 10 breath per minute) Select Mode at CapnoTrue: Main Menu > Service > Maintenance > Check gas accuracy Calibration gas (5% ±0.1vol% CO ₂ , 20.9% O ₂ balance N ₂)			
4.1) 5vol% CO ₂ calibration gas + airway adaptor	EtCO ₂ : 4.7 ^{3.6-10.4} 5.3 vol% FiCO ₂ : 0.0 - 0.3vol%	☒ pass ☐ fail	value: EtCO ₂ / FiCO ₂ 9.8% / 0.1% Zeroing? ☐ yes ☒ no
4.2) Breath per minute	10 (+-1 bpm)	☒ pass ☐ fail	reading RR: 10
5. Alarms und Data Download (switch on device, SpO ₂ Sensor at finger, breath through airway adapter)			
5.1) Remove SpO ₂ Sensor from finger	Alarm sound and message „SpO2 Probe off !“	☒ pass ☐ fail	
5.2) Breath 3x through airway adapter and wait 20s	Alarm sound and message „Apnoea !!“	☒ pass ☐ fail	
5.3) Download data to PC with CapnoTrue PC-Software	Successful data download to PC	☒ pass ☐ fail	PC-SW version: VM-2500 Veterinary 1.0
5.4) Delete all data	All stored data in the device are deleted	☒ pass ☐ fail	
6. Leakage test – ISA module (Only for sidestream capnograph CapnoTrue®ASP)			
6.1) Perform leakage test (see Technical Support Manual)	CO ₂ drop <0.5vol% in 1 Min.	☐ pass ☐ fail	
7. Packaging and accessories			
7.1) Latest FW on the device?	See server	☒ pass ☐ fail	Ver. 1.1.6 Model VM-2500-4 Ver. EU
7.2) Time (accuracy RTC)	Same as test PC	☒ pass ☐ fail	
7.3) Remove Li-Ion battery	Battery case empty	☒ pass ☐ fail	
7.4) SN on device back label	SN like label in battery case	☒ pass ☐ fail	
7.5) Protective sheet on label	Implemented	☒ pass ☐ fail	
7.6) Screw locking	Implemented	☒ pass ☐ fail	
7.7) Final check	Device and parts clean & no damages	☒ pass ☐ fail	

Attachments:

Model VM-2500-11 Ver.	Device Serial Number A1711450006	RMA number 2019-0349	Date of analysis 24.06.2021
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