Maintenance - Checklist
CapnoTrue AMP / ASP / MG

NOTE: CapnoTrue®AMP/ASP/MG monitors do not require a routine Safety Check - STK (§6) or routine Measurement Accuracy Check - MTK (§11) according to German regulation (Attachment 1 and 2 of MPBetreibV)

The Handheld capnograph and pulse oximeter CapnoTrue®AMP/ASP/MG with accessories is permanently factory calibrated. The maintenance and calibration-free technology (gas analyzer and SpO_2 Module) integrated in the CapnoTrue®AMP/ASP/MG ensures a robust measurement function throughout the lifetime of the monitor. No routine calibration is required however a basic maintenance plan is highly recommended.
To document the maintenance, use the following checklist. All recommended test steps are described in detail in the document *CapnoTrue Maintenance instructions* and *Service Manual.*

Description of device components	
Device	Device Model (REF on back of label) ☐ CapnoTrue®AMP (3090112001) ☐ CapnoTrue®MG (3090112009) ☐ CapnoTrue®ASP (3090112002)
External power supply	☐ black connector at cable and at device (Rev. 1) ☐ orange connector at cable , metal connector at device (Rev. 2)
SpO_2-Sensor	○ SC 6500 ○ SCP 6500 ○ W 6500 ○ SCA 6500 ○ SCPA 6500 ○ Disposable
Serial number (SN) Of the modules in the device menu: Service Menu> System information > Device information	**Device** (SN on rear device label)**:**
	SpO_2-Sensor (SN on cable)**:**
	SpO_2 Module (SN in Service Menu)**:**
	CO_2 Module (SN in Service Menu or on housing)**:**
Firmware Version update at manufacturer is possible starting from v7.5	Version (Startup-Screen at switch on):

Comments		
Result	☐ Pass **AMP/MG:** Step 1 – 5 **ASP:** Step 1 - 6	☐ Fail **Don't use device to monitor patients! Perform repair.**
Date	Tester	

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bluepoint MEDICAL

SN:_____

Test step	Target state	Result	comment
1. Visual inspection			
Housing, Display, Keypad	No damages or defects	☐ pass ☐ fail	
Sensors and cable	No exposed optical components or cables or other damages to the sensor	☐ pass ☐ fail	
external power supply (cable+ connector)	No damages or defects	☐ pass ☐ fail	
Label + transparent protective foil	Label and the transparent protective foil are fixed clean to the back of the device.	☐ pass ☐ fail	
Screw lock	Fixed to upper right-hand screw	☐ pass ☐ fail	
2. Power Supply Options (AA batteries, Li-Poly rechargeable battery, external power supply) (switch on with each supply option >Measurements: SpO_2 at finger; etCO2 by breathing through airway adapter > switch off)			
only 4 AA Batteries	switch on> measurement> switch off	☐ pass ☐ fail	
only Li-Poly	switch on> measurement> switch off	☐ pass ☐ fail	
only ext. power supply	switch on> measurement> switch off	☐ pass ☐ fail	
ext. power supply + Li-Poly	switch on > measurement + charging > switch off	☐ pass ☐ fail	
Comments: (Pixel defects, etc.)			
3. SpO_2-Function at simulator			
SpO_2 at simulator setpoint 82% (BPM or Nellcor curve)	82% SpO_2 (+-2 digits)	☐ pass ☐ fail	value:
Pulse rate at simulator setpoint 75bpm	75 beats/min (+-1 digits)	☐ pass ☐ fail	value:
SpO_2 low alarm	Audible and visual	☐ pass ☐ fail	
Comments:			
4. CO_2-Measurement (use reference device as alternative means if no breath simulator is available) Select Mode at CapnoTrue: *Main Menu > Service > Maintenance > Check gas accuracy* Calibration gas (5% ±0.1vol% CO2, 20.9% O_2 balance N_2)			
5vol% CO_2 calibration gas + airway adaptor	$EtCO_2$:**4.7 – 5.3 vol%** $FiCO_2$: **0.0 – 0.3vol%**	☐ pass ☐ fail	value: $EtCO_2$ / $FiCO_2$
Breath per minute	setpoint (+-1 digit)	☐ pass ☐ fail	value:
Comments::			

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Test step	Target state	Result	comment
5. Alarms und Data Download (switch on device, SpO_2 Sensor at finger, breath through airway adapter)			
Remove SpO_2 Sensor from finger	Alarm sound and message „SpO2 Probe off !“	☐ pass ☐ fail	
Breath 3 X through airway adapter and wait 20s	Alarm sound and message „Apnoea !!“	☐ pass ☐ fail	
Download data to PC with CapnoTrue PC-Software	Successful data download to PC	☐ pass ☐ fail	
Delete all data	All stored data in the device are deleted	☐ pass ☐ fail	
Comments:			
6. Check pressure – ISA module (**Only** for sidestream capnograph CapnoTrue **ASP**) Select at device: *Main Menu > Service > Maintenance > Check pressure*			
Compare displayed ambient pressure value with the actual barometric pressure value at the local site	actual barometric pressure ±5 kPa	☐ pass ☐ fail	
Compare displayed cuvette pressure with ambient pressure	cuvette pressure is 1 to 5 kPa smaller than displayed ambient pressure	☐ pass ☐ fail	Ambient pr. kPa Cuvette pr. kPa
Comments:			