ACCIICA P9118

Digital Capnograph
PARSIAN MEDICAL Co.



Technical Specification:

- Digital capnograph with selectable Mainstream or Microstream sensor
- Ability to select EtCO, measurement unit (mmHg, kPa, or %)
- · Selectable patient type (Adult, Pediatric, and Neonate) with the related airway adapter
- · Accurate monitoring in the presence of anesthetic agents
- Automatic measurement of ambient (atmospheric) pressure for higher EtCO2 accuracy
- · Record and save measured parameters (Trend) per patient
- Ethernet output complying with HL7 protocol
- USB connection with relevant computer software
- Internal rechargeable Li-ion battery, with a lifetime of 5 hours of continuous monitoring
- 7.8" widescreen LCD with capacitive touch with vertical and horizontal orientation
- Audible and visual alarms consistent with IEC standard

Digital Capnograph including following parameters:

- Exhaled End-tidal CO₂ (EtCO₂)
- · Respiration Rate (RR)
- Inspired Fraction of CO₂ (FiCO₂)
- CO₂ Waveform



Electrical Characteristic		
Power Requirement	80~264 VAC	
Frequency Range	47~63 Hz	
Rated Power	45 W	
Fuse	2 x 500 mA/250 VAC, 5 x 20 mm	

Physical Dimension		
Dimensions (WHD)	25 x 8 x 22 cm	
Weight	1 Kg	

Internal Battery		
Туре	Li-Ion 7.4 V, Rechargeable, Maximum Protection	
Operating Time	5 hours	
Charging Time	3 hours	

Display		
Туре	TFT Liquid Crystal Display (LCD), 400 x 1280 pixels, 7.8 inches	
Data Displayed	EtCO ₂ , Respiration Rate, FiCO ₂ , Capnography Waveform, Alarms and Status Message	

Specifications of Sensors		
Transducer Type	CAPNOSTAT® 5: Mainstream LoFlo®: Microstream	
Principle of Operation	Non-dispersive infrared (NDIR) single beam optics, dual wavelength, no moving parts	
Initialization Time	Less than 15 seconds for CAPNOSTAT® 5 and less than 20 seconds for LoFlo® at an ambient temperature of 25°C, full specifications within 2 minutes	
CO ₂ Measurement Range	0 to 150 mmHg 0 to 19.7% 0 to 20 KPA (at 750 mmHg)	
CO ₂ Rise Time	Less than 60 msec	
CO ₃ Resolution	0.1 mmHg 0 to 69 mmHg 0.25 mmHg 70 to 150 mmHg	
CO ₂ Accuracy (Temperature at 35° C)	0 - 40 mmHg ± 2 mmHg 41 - 70 mmHg ± 5% of reading 71 - 100 mmHg ± 8% of reading 101 - 150 mmHg ± 10% of reading	
CO ₂ Stability	Short Term Drift: Drift over four hours shall not exceed 0.8 mmHg maximum. Long Term Drift: Accuracy specification will be maintained over a 120 hour period.	
CO ₂ Noise	RMS noise of the sensor shall be less than or equal to 0.25 mmHg at 7.5% CO ₂ for CAPNOSTAT® 5 and at 5% for LoFlo®.	
Respiration Rate	Range: 0 to 150 respirations per minute (RPM)	
Respiration Rate Accuracy	± 1 breath	
Inspired CO ₂ Measurement	Range: 3 to 50 mmHg	
Calibration	No routine user calibration required. An airway adapter zero is required when changing to a different style of airway adapter:	
Compensations	Expired O _s , balance gas (N _b , N _c O, He) and anesthetic agents	
Total Pressure (Barometric plus Airway pressure)	Range: 400-850 mmHg	
Cross-sensitivity Compensation Error	0-40 mmHg: ± 1 mmHg additional error 41-70 mmHg: ± 2.5% additional error 71-100 mmHg: ± 4% additional error 101-150 mmHg: ± 5% additional error	
Physical characteristics	CAPNOSTAT* 5 Weight: 25 gr Size (WHD): 43 × 33 × 23 mm Cable length: 3 meters LoFlo* Weight: 272.16 gr Size (WHD): 66.0 × 38.1 × 88.9 mm Cable length: 55.88 cm	

List of Relevant Standards	
IEC 60601-1:2020	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance
IEC 60601-1-2:2014	Medical electrical equipment - Part 2-1: General requirements for safety - Collateral standard: Electromagnetic disturbances - Requirements and tests
IEC 60601-1-8:2006	Medical electrical equipment - Part 8-1: General requirements for safety - Collateral standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems
ISO 80601-2-55:2018	Medical electrical equipment - Part 2-55: Particular requirements for the basic safety and essential performance of respiratory gas monitors
IEC 62304:2006	Medical device software - Software life cycle processes
ISO 14971:2019	Medical devices - Application of risk management to medical devices



