

CapnoTrak Sidestream Module



CapnoTrak Sidestream CO₂ Module - Specifications

TRANSDUCER TYPE	SIDESTREAM CO ₂ SENSOR
Sample Flow Rate	50 ml/minute ± 10 ml/minute
Sensing Technology	Non-dispersive infrared (NDIR) single beam optics, dual wavelength, no moving parts in optical sensing assembly
Initialization Time	Capnogram displayed in less than 10 seconds; at an ambient temperature of 25°C, full accuracy specifications within 3 minutes
CO ₂ Measurement Range	0 to 99.00 mmHg; 0 to 13.03%; 0 to 13.20 kPa
CO ₂ Accuracy	0 – 38 mmHg ±2 mmHg 38 – 99 mmHg ±10% of reading
Measurement Frequency	100 Hz
Respiration Rate Range	0 to 100 Breaths Per Minute (BPM)
Compensation	On-board barometric pressure compensation (400 mmHg to 850 mmHg) Airway Pressure ±60 cmH ₂ O (±44.1 mmHg)
(Supplied by Host)	Operator selectable O ₂ , N ₂ O, He, and agent compensation
Exhaust Tube	Includes a 12" exhaust tube to connect to external exhaust port
Voltage Requirements	5.0 VDC ±5%
Power Rating	< 1.5 W steady state and > 2.0 W during warm-up period
Interconnection	Host connector for serial interface and power connection
Engine Dimensions	≤ 87 mm x 59 mm x 38 mm (L x W x H) exclusive of the mounting tabs
Temperature and Humidity	0 to 55°C, 10 to 95% non-condensing RH (Internal to host enclosure)
Data Interface	RS232, 19200 baud, 8-bit, No parity, 1 stop bit (no flow-control)
Data Output	CO ₂ gas concentration (mmHg), end-tidal CO ₂ , inspired CO ₂ , respiratory rate
Accessory Length of Use	Combine the filter assembly and dehumidification tubing for longer life of the filter and cannula