

vPad-CO2™

vPad-CO2 is an advanced End-Tidal Carbon Dioxide (EtCO2) Breath Simulator designed to generate a flow of gas† that is connected to capnometers or patient monitors with capnography functionality. This patient's breath simulation allows for scheduled preventive maintenance or functional testing of both Mainstream and Sidestream Capnography Monitors. Additionally, vPad-CO2 could be used for waveform simulation for evaluating and testing of respiratory gas analyzers.

vPad-CO2 can be controlled and run as part of Datrend's vPad-A1 Multi-Parameter Patient Simulator, or it can operate as a standalone unit with an optional 10" screen to carry out only capnography testing.

vPad-CO2 is part of Datrend's Vision-Pad (vPad) Platform and comes with a list of standard features that's unique to our system such as on-device test record management, cloud storage integration, remote support and software upgrade, user-controlled automation, and much more.

Finally, vPad-CO2 comes in a portable ruggedized IP67 enclosure that is airtight and waterproof when closed, perfect for on-the-go professionals.



Innovation by design

† vPad-CO2 requires a CO2 source to simulate patient's breath between air and CO2.

vPad-CO2™ – Equipment Performance Specifications

Breath Rate:

- Range: 2 – 150 BrPM
- Resolution: 1 BrPM
- Accuracy: ±0.1%, 2 to 100 BrPM
±0.1 BrPM, 101 to 150 BrPM

Duty Cycle:

- Range: 20% to 80% (CO2 vs Air)
- Resolution: 1%

Units of Measure:

- CO2: % Volume, mmHg, kPa
- Atmospheric Pressure: mmHg, kPa

Maximum CO2 Input Pressure: 25 PSI

User Interface:

- 5" High Resolution Colored LCD Touchscreen via vPad-A1
- 10" Colored HD LCD Touchscreen (option)
- Multi-language Support

Manual Testing:

- User Defined BrPM Simulation
- User Defined Duty Cycle
- Pass/Fail record on Monitor CO2 and Breath Rate Readings

Automated Testing:

- CO2 Measurement Record with Error Calculation
- User defined (up to 12) Breath Rate Testing with Error Calculations

Other Features:

- Animated simulation
- Create Records for Manual and Automated Tests
- Combine Test Results with Other Simulations (through vPad-A1)
- User managed asset database
- On-device PDF generation
- On-device integration to Google Drive, OneDrive, Dropbox

Connectivity: USB Type-B, Mini-Din, CO2 Input, Air Mixture Output

Power Supply: Universal 12V AC/DC Adapter

Dimensions:

36.3 x 28 x 12 cm (14.3 x 11.1 x 4.7 in)

Weight:

3.6 kg (8 lbs.)

Environment:

- 15°C to 40°C (59°F to 104°F)
- 10% to 90% RH
- Indoor Use Only
- Category II
- Pollution Degree 2



130 - 4020 Viking Way, Richmond, BC, Canada V6V 2L4
 Phone: +1.604.291.7747 • Fax: +1.604.294.2355
 Toll-free (North America only): 800.667.6557
 Email: Sales@Datrend.com ©DATREND SYSTEMS INC. JANUARY 2021