

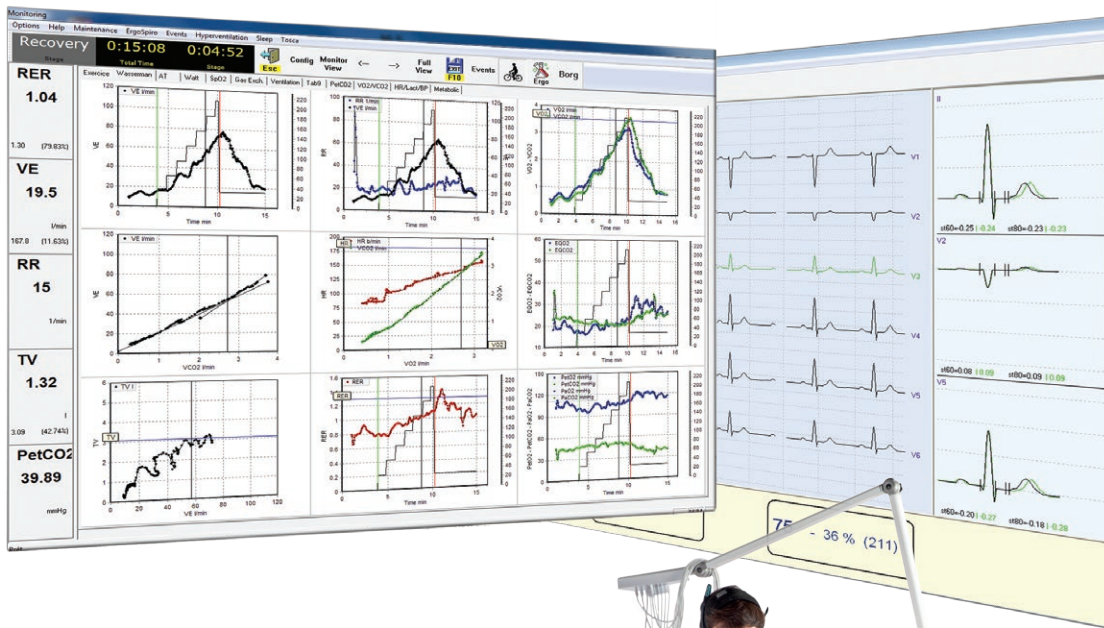


M.E.C.

MEDICAL **ELECTRONIC** CONSTRUCTION

"Since 1984 Manufacturer & Distributor
of Respiratory & Cardio Respiratory Devices"

MEC PFT Systems Ergo Ergospirometry/ Cardiopulmonary Exercise Test (CPET)



- Fast and reproducible results thanks to the Variable Orifice Pneumotachometer (VOP).
- Long-lasting, ultra-fast and accurate laser O2 and NDIR CO2 gas analyzers for breath by breath analysis.
- Automatic gas calibration (< 60 seconds).
- Simultaneous display of ventilation and stress ECG on two monitors.
- Automatic anaerobic threshold detection.
- Quality assessment software in accordance with the latest ATS/ERS guidelines.
- 5 years extended warranty program.



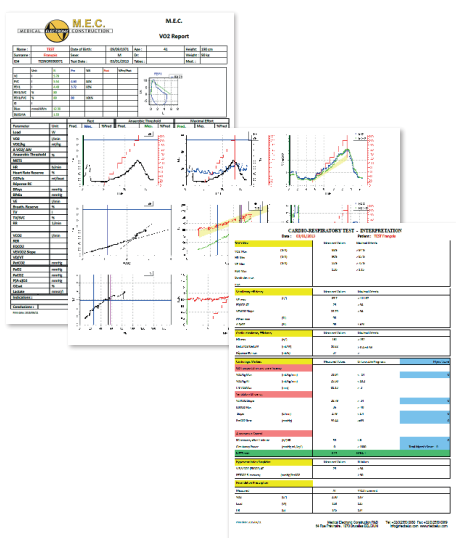
Easy, fast and accurate for improving patient diagnostics

MEC PFT Flow Sensor with Variable Orifice Pneumotachometer

- High accuracy and reproducibility at both low and high flow range.
- **Constant and low resistance at all flow ranges.**
- No heating element, insensitive to humidity and sputum.
- Long durability, reusable and easy to clean.
- Low dead space and very lightweight bi-directional digital volume transducer which can be placed over the mouth of the patient with different interfaces (masks, saliva traps).



MEC Patient Data Interface (PDI) Software



All **MEC PFT Systems** are evolving equipment with advanced data communication technologies (USB and/or Bluetooth) for PC and tablet PC (Windows OS).

Thanks to the **Patient Data Interface (PDI)** software, data are automatically imported and exported from your medical file to the chosen interface (XML, ASCII, HL7, BDT/GDT format) for real time analysis.

The PDI software allows you to perform a complete cardiopulmonary exercise test including:

- Monitoring of all desired parameters including alarm functions.
- Graphical display of the patient's optimal training program.
- Online transfer of 12 leads ECG, SpO2, BP, BGA.
- Manual input of external measured data during and after measurement.
- Determination of the anaerobic threshold: V-Slope, CO₂ - excess, EQ O₂ - minimum, RQ=1 or simple manual adjustment at any time.
- Automated interpretation scheme according to Wasserman.

Specifications

Cardiopulmonary Exercise Test	Pulmonary Gas Exchange (VO ₂ , VCO ₂), VO ₂ max, Sub-max VO ₂ , Thresholds (AT, VT1, VT2), HeartRate
Spirometry	Forced and Slow Vital Capacity (FVC/SVC), Pre/Post test, Bronchochallenge, Maximum Voluntary Ventilation (MVV)
Flowmeter	
Sensor	Variable Orifice Pneumotachometer
Range	0-15 l/s
Accuracy	Volume ± 3% or 50 ml whichever is greater and flow ± 0.05 l/s
Resistance	< 0.1 kPa/ (l/s) at 10 l/s
Gas analyzers	Type: O ₂ laser, range: 2-100%, accuracy: ± 0.05%, response time (t ₉₀): 80 ms Type: CO ₂ NDIR, range: 0-10%, accuracy: ± 0.05%, response time (t ₉₀): 150 ms

MEC, YOUR PARTNER FOR THE LONG TERM ...



Medical Electronic Construction R&D sprl
Rue Prévaire 64 Prevainstraat
Bruxelles 1070 Brussel
BELGIUM

Phone + 32(0) 2 558.00.60
Fax + 32(0) 2 558.00.69
e-mail info@mecrd.eu
Web www.mecrd.eu



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