



Portable ANSIscope
Product Specifications



The Portable ANSiscope is a safe and non-invasive monitoring device for the Autonomic Nervous System. It is battery operated, operates in real time and is ideal for operation in a physician's practice or in the field.

Measurement

- The initial ANSindex reading is displayed after 60 R-R intervals (approx 1 minute)
- Subsequent readings are taken with every heartbeat
- The display is updated with every heartbeat

Data acquisition

- Standard leads acquired: I, II, III, aVR, aVL, aVF, V1-6
- Lead and gain selection: User can dynamically select lead/gain during recording
- Digital sampling rate: 1666 samples/sec (0.6ms samples)
- Sampling resolution: 16 bit, bipolar
- Frequency response: 0.5 Hz to 40 Hz

- Filters
 - High Pass: 0.5 Hz cutoff
 - Low Pass: 40 Hz cutoff
 - Notch filter: 50Hz, 60Hz for power interference
- Input dynamic range: 5 mV
- Common mode rejection: >100dB
- DC offset capability: 300 mV DC
- Input lead impedance: >20M ohm at DC

Patient information

- Input at the start of the measurement

Treatment notes

- Can be appended during the measurement

Help facility

- Is available at any time from the display

Data display

- Choice of colour or monochrome displays

ANS monitor

- The ECG signals are displayed in real-time on the LCD Screen of the Portable ANSiscope
- The display also shows
 - ECG lead selection
 - Heart rate
 - The sympathovagal balANS (from -50 to +50)
 - Both, sympathetic and parasympathetic ANSi indices (from -50 to +50)

Measurement of dysfunction

- The display shows
 - The static balANS
 - The percentage of dysfunction

Data storage capability

- USB memory keys (Thumb drives) can be used for data storage/backup
- Also supports SCSI compatible USB mass storage devices
- Data can be exported to a PC via a USB memory key

Printing capability

- Prints on A4/letter size papers providing an inexpensive printing solution
- Works with most HP inkjet printer families
- The printers can be plugged into either the USB Port or the IR port of the portable ANSIScope

Regulatory compliance

IEC 60601-1, IEC 60601-2, IEC 60601-25

Patient safety

- Patient leakage current: <10 A
- Classified as Class II - Type CF device as per IEC requirements

Product test and calibration

- Auto calibration at startup
- Extended tests and calibration can be performed including the ECG cable by connecting the ECG cables to calibration terminals provided in the product

Power specifications

- AC adapter input: 100-240V AC, 50/60 HZ
- AC adapter output: 12V DC @ 2amps Max
- Power consumption: <15W

Physical specifications

- Weight: <0.4 Kgs (including the battery)
- Dimensions: 175 x 95 x 112 (mm)

Environmental specifications

- Operating temperature: 0 to 45C
- Storage temperature: -20C to +65C
- Humidity: 10% to 95%
- Pressure: 700 -1060 millibars
- Protected from patient defibrillation

Battery and charger

- Battery pack type: NiMH rechargeable battery
- Battery voltage: 3.6 VDC
- Battery capacity: 2300 mAh
- Typical battery operational time on full charge: >7 hours
(without any peripherals connected)
- Typical battery charge time: 6 hours
- Auto shutdown time: 5 minutes

Standard accessories

- NiMH battery pack
- AC power adaptor with power cord
- Stylus and charger for display
- Cables
 - USB interface cable for display
 - 5 lead ECG cable
 - Starter DyAnsys skin tack package
- Product user manual
- Quick reference guide

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