



The ApexPro telemetry receiver is a new space-saving design and can be conveniently mounted to a standard network equipment rack or shelf. Configuration allows up to four quad receiver modules, for a total of 16 multi-channel telemetry receivers in one compact unit. The flexibility to add quads with four receiver channels allows the system to grow with the number of patients which are monitored telemetrically.

The multi-channel receivers are admitted through the Clinical Information Center CIC Pro. The telemetry data is processed there, stored and displayed. The telemetrically acquired ECG-data can also be displayed at a bedside monitor. The use of LAN data transfer technology allows the receiver system to be located virtually anywhere within the hospital. LED displays offer quick, easy assessment of on-line status while diagnostic ports speed troubleshooting.

Features

- Arterial fibrillation detection
- 3, 5, or 6 (dual V-Lead) wire sets
- Electronic software calipers at the central station
- 1, 24, 48, or 72 hours of Full Disclosure
- 4-Lead simultaneous and independent arrhythmia detection
- Masimo and Nellcor SpO2, blood pressure, and temperature via DinaLink and a DINAMAP vital signs monitors



Specifications

Dimensions

Size: H x W x D: 170mm (6.7 in) x 325 mm (12.8 in) x 250 mm (9.8in)
Weight: 6.4 kg (14 lb)

Battery

Type: ANSI/NEDA 15A, 1.5 V AA alkaline (2 req.)
Life: 40 hours typical
Polarity: Electronic reverse polarity protection
Static withstand: Meets and exceeds IEC 801-2 second edition Shock withstand: 5 random drops from 4 ft onto tiled concrete floor Water resistance: IEC 529 IPX3 rating
Cleaning/Sterilization: Isopropyl alcohol, ammonia (diluted), Cidex®, sodium hypochlorite bleach (diluted) or mild soap (diluted). Consult operator's manual for cleaning instructions.

Alarms & Controls

Battery integrity: Transmitted and indicated via LED
Lead fail indication: Transmitted and indicated via LED
Alarm Pause: Transmitted and indicated via LED
Graph request: Transmitted
Power on/off: Battery insertion/removal

Date Recording & Transmission

Frequency stability: $\pm 0.0001\%$ of assigned channel frequency
Modulation: GMSK
Bit rate: 10kb/sec
Dual antenna: Formed by leadwire shield and internal microstrip antenna

ECG

Multi-channel (5- or 6-leadwire) configuration: I, II, III, Va, Vb, aVR, aVL, aVF
Leads analyzed simultaneously: Four (I, II, III and V)
Single-channel (3-leadwire) configuration: I, II or III, programmable
Heart rate detection range: 3 to 300 beats/minute
QRS detection range: 0.5 to 5 mV
Frequency response: 0.05Hz to 40Hz (-3dB)
Dynamic range: ± 5 mV (RTI)
Input offset: ± 400 mV (RTI)
Input impedance: 15 Megaohm min differential at 10 Hz
ECG gain selection: 5, 10, 20, 40 mm/mV (RTI)
Gain accuracy: $\pm 5\%$ at 15 Hz
Common mode rejection: 100 dB min at 60 Hz
Lead fail detection: DC type; indicates leadwire failed (i.e., RA, LA, LL, Va and Vb)
Pacemaker detection: ± 2 mV to ± 700 mV (RTI); 100 μ sec to 2 msec; either polarity
Defibrillator protection: ± 5000 VDC, 360 joules into 50 ohm load
Defibrillator recovery time: Limited only by electrode recovery time.
Transmitter recovers within 2 sec