

Telemetry Monitoring System

Monitoring Freedom

The innovative Telemetry Monitoring System from Charter Kontron is a patient worn system providing ambulatory patients degree of supervision equal to patients connected to a bedside monitor, whilst permitting freedom of movement within designated areas. Telemetry Monitoring provides cardiac care patients ambulatory freedom without compromising the level of care resulting in improved rehabilitation rates.

The Telemetry system comprises a light weight transmitter for 7 lead ECG with optional SpO2 measurement, a receiver supporting up to 16 patient transmitters and a Central Viewing Station. The central viewing station displays patient vital signs and alerts from telemetry monitored patients and all Charter Kontron bedside monitors.

Benefits

Portability: Low weight transmitters, easily carried by the patient, enabling continuous monitoring and mobility.

Integration: The Central Nurse Station provides integrated display and alarms from bedside and telemetry monitors assisting the nurse in managing the entire unit.

Cost Effective: Single Central Station displays bedside and telemetry monitors reducing overall capital costs.

Networking: Bedside monitors, Central Station and telemetry receivers operate on the same Local Area Network (LAN), simplifying the system installation and reducing costs.

Extended Monitoring: The telemetry transmitter provides 7 leads of ECG and SpO2, for monitoring cardiac and pulmonary function compromised patients.



Product Highlights

Telemetry system configuration:

- Up to 16 Telemetry transmitters with a single receiver connected to the monitoring network within the hospital
- Frequency/power setting can be adapted to local country regulations
- Double-antenna receiving system (independent of RF channel) providing built-in redundancy to minimize signal loss.
- High reliability, narrowband wireless transmission and digital modulation

Telemetry Transmitter Features:

- ECG transmission of seven vectors using standard 5 lead cable
- Automatic ECG cable 3 / 5 identification
- SpO2 telemetry
- Nurse call button on the transmitter
- Event button on the transmitter
- 96 hour of ECG transmission, using only 2 AA batteries
- 48 hours for transmission of both ECG and SpO2

Central Nurse Station telemetry features

- Continuous display of 3 ECG leads
- Seven leads ECG, I, II, III, aVR, aVL, aVF, V available on request
- Heart rate display with heart rate alarm
- Dual lead ST measurement
- Arrhythmia alarms
- Full disclosure of last 48 hours
- Audio nurse call at central station
- Battery status and signal quality displayed at Central Nurse Station

Additional Central Nurse Station features

- Simultaneous display of up to 32 monitors, telemetry or bedside
- Alarm monitoring of up to 64 monitors, telemetry or bedside
- Central Station may display data from the telemetry monitors in addition to all Charter Kontron patient monitors: Enmove, Envoy, and VitaLogik



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