GE HealthCare



ApexPro CH Telemetry

Connecting intelligence and care.

gehealthcare.com

Expanding the power of telemetry

Telemetry is an important technology in today's healthcare environment. With patient care and outcomes among your concerns, GE HealthCare's ApexPro® CH telemetry system delivers exceptional reliability and clinical technology to help reduce the possibility of transmission interference, dropout and downtime.

Built on GE HealthCare's legacy of quality and innovation, the ApexPro CH telemetry system offers a flexible, economical way to deploy telemetry wherever it is needed.

Stronger together

The ApexPro CH telemetry system relies on an excellent networking infrastructure operating in the 608-614 MHz frequency band. This custom-designed infrastructure gives you the flexibility and scalability to provide wireless transmissions within your specific RF environment. Because GE HealthCare delivers “coverage area” rather than “infrastructure equipment,” you are assured of comprehensive, reliable coverage across the entire area you need.

As part of GE HealthCare’s comprehensive wireless solution, the ApexPro telemetry system delivers the relevant clinical intelligence to help caregivers respond to critical situations faster and work more productively. Together with the comprehensive GE HealthCare suite of mobile, remote and bedside monitoring technologies, the ApexPro CH telemetry system helps you deliver information to the critical point of clinical decision-making.



The power of reliable coverage

The ApexPro telemetry system offers a reliable wireless patient monitoring system that helps protect against signal interference and dropout. Within the 608-614 MHz frequency band, GE HealthCare custom-designs the ApexPro telemetry infrastructure for your unique RF environment to filter out “noise” that could interfere with telemetry signals.

Built for durability and ease of use, ApexPro CH transmitters come equipped with a 120-hour minimum battery life (without accessories), excellent fluid-ingress protection and the event-marker feature.

The ApexPro CH telemetry system includes exclusive GE HealthCare technologies such as quad-diversity antennas, which search four separate antenna fields each second for the best signal from each patient. It also features Dynamic Spatial Adaptive Attenuation (DSA2) technology to provide even and continuous telemetry coverage throughout the hospital. This helps ensure that vital patient data is transmitted using a redundant network that operates independently of your other Wi-Fi networks.

Designed to be both backward-compatible and forward-flexible, the ApexPro CH telemetry system enables you to extract maximum value while protecting your investment over time. This accommodates today’s requirements while helping to ensure the capacity and capabilities you need for future expansion.



The foundation for clinical quality

Patient care and outcomes are among your top priorities. The ApexPro CH telemetry system addresses both with exceptional detection and analysis of patient data to help you monitor your patients' status more fully and accurately.

- Uses the EK-Pro clinical algorithm, which processes and analyzes up to five independent and simultaneous ECG leads. By this design, the algorithm has the ability to evaluate data from the inferior, anterior and lateral walls of the heart, allowing for the detection and alarming of cardiac events that may have otherwise gone unnoticed[1]
- Uses an innovative Smart Leads Fail feature that provides uninterrupted monitoring and algorithm analysis in the event of an electrode failure
- With EK-Pro, supports advanced atrial fibrillation detection and alarming. Accurate identification of A-Fib may help prevent this arrhythmia from becoming chronic through early detection and trending analysis
- Can monitor two V-leads on each patient. Caregivers can be vigilant for both arrhythmias and ST segment changes by monitoring both the V1 lead and a left precordial lead
- Pace detection across two vectors improves the system's ability to recognize when a patient's pacemaker is being utilized–allowing for a visual differentiation to appear on the waveform signal
- The flexible design allows each transmitter to monitor only the parameters each patient requires. Continuous monitoring of ECG and SpO_2 allow caregivers to tailor monitoring according to the patient's acuity
- Two pulse oximetry technology options, including Masimo SET Measure-through Motion and Low Perfusion™ pulsion oximetry, which delivers accurate oxygen saturation and PR readings for a high detection of true events and low incidence of false events, and Medtronic's Nellcor pulse oximetry with OxiMax™ technology, which delivers accurate saturation and pulse rate values even during interference conditions — such as patient motion or low perfusion



Note: ^Check with your local GE HealthCare representative for availability.

[1] Bowman, J. A., MSEE; Earl, R. G., PhD; Haupt, N., BSEE; Hutchinson, G.M., PhD; Salvo, J., BSCE; Sitzman, D. A. MSEE. *Ventricular Arrhythmia Detection Performance of Two Commercially Available Patient Monitors Using Previously Unpublished ECG Waveforms.*

Intelligence comes in many forms

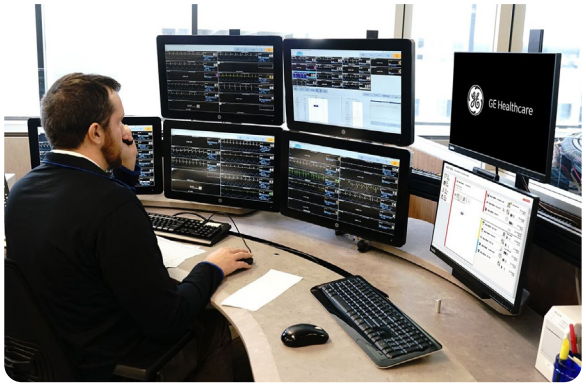
With the ApexPro CH telemetry system, vital patient details are available through a variety of information viewing devices to enable constant vigilance and workflow flexibility. When clinical intelligence can be accessed in many convenient ways, caregivers are empowered to respond quickly to critical situations and take appropriate action.

The ApexPro CH telemetry system can be used effectively for either centralized or decentralized monitoring. Because telemetry data is accessible enterprise-wide, patients can be placed flexibly throughout the organization while being monitored with telemetry. Nurses are freed to focus on patient care with the confidence that their patients are receiving continuous, quality monitoring.

Whether you choose centralized or decentralized monitoring, the ApexPro CH telemetry system can support your hospital protocol for continuous patient continuous patient cardiac monitoring.



Web Viewer connects patients and caregivers virtually any time and place by enabling remote viewing of telemetry information on laptops or tablet PCs.



GE HealthCare's central stations enable you to manage patient information gathered from any patient monitor on the CARESCAPE Network.



In Combination Mode, CARESCAPE modular monitors can display telemetry waveforms alongside other vital signs, saving the time and inconvenience of disconnecting and reconnecting the patient to telemetry. In Rover Combo Mode, a wireless GE HealthCare monitor and ApexPro CH telemetry together create a powerful mobile monitoring solution.

Patient monitoring no longer operates in a silo. Ease of use and continuous, connective flow of patient data make wireless patient monitoring simpler and more efficient. The ApexPro CH telemetry system puts vital information in caregivers' hands wherever they are, at the moment they need it most.

GE HealthCare

Not all products or features are available in all markets. Full product technical specifications are available upon request. Contact a GE HealthCare representative for more information.

Please visit: www.gehealthcare.com

Data subject to change.

©2024 GE HealthCare.

ApexPro and CARESCAPE are trademarks of GE HealthCare. GE is a trademark of General Electric Company used under trademark license.

All other trademarks are the property of their respective owners.

Reproduction in any form is forbidden without prior written permission from GE HealthCare. Nothing in this material should be used to diagnose or treat any disease or condition. Readers must consult a healthcare professional.

JB00056XX(1) 3/2024