

GE Healthcare



ApexPro FH Telemetry

Connecting intelligence and care.



Expanding the power of telemetry.

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

ApexPro FH offers an expansive and scalable telemetry option designed to support large healthcare enterprises. ApexPro FH integrates with CARESCAPE™ Enterprise Access, GE's distributed antenna system solution. This powerful combination provides a coverage area of up to 1.2 million square feet, enabling you to monitor up to 640 patients across the enterprise.

Stronger together.

As part of GE's comprehensive wireless solution, ApexPro FH delivers the relevant clinical intelligence to help caregivers respond to critical situations faster and work more productively. ApexPro FH relies on an exceptional, bi-directional networking infrastructure using the Wireless Medical Telemetry Service (WMTS) spectrum for dependable communication of vital patient information. An access point-based, frequency-hopping spread spectrum (FHSS) infrastructure provides you with the capacity and flexibility to meet your telemetry demands.

ApexPro FH integrates with CARESCAPE Enterprise Access, giving you the option to unite clinical intelligence across the enterprise under one halo of wireless coverage. This single-infrastructure approach gives you more flexibility to deploy ApexPro FH telemetry wherever you need it.

Together with the comprehensive GE Healthcare suite of mobile, remote and bedside monitoring technologies, ApexPro FH helps you deliver information to the critical point of clinical decision-making.



Telemetry for large healthcare enterprises.

Compatible with CARESCAPE Enterprise Access, ApexPro FH provides a WMTS-protected, wireless patient monitoring system that helps to protect against signal interference and dropout. The powerful ApexPro FH infrastructure covers an area of up to 1.2 million square feet, enabling you to monitor up to 640 patients across the hospital. The FHSS technology helps reduce the possibility of external interference in any RF environment. These advanced technologies help ensure the most reliable signal for every monitored patient.

With ApexPro FH, 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.

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

Whether you choose centralized or decentralized monitoring, ApexPro FH can support your hospital protocol for continuous patient surveillance.



In Combination Mode, GE's CARESCAPE modular monitors can display ApexPro FH telemetry waveforms alongside other vital signs, saving time and the inconvenience of disconnecting and reconnecting the patient ECG leads from bedside monitor to telemetry. In Rover Combo Mode, a wireless GE monitor and ApexPro FH telemetry work together create a powerful mobile monitoring solution.



The CARESCAPE Central Station enables you to centrally manage patient information gathered from any patient monitor on the CARESCAPE Network.



ApexPro FH telemetry enables patients to ambulate while still being monitored for important ECG arrhythmia events.



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

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The foundation for clinical quality.

Patient care and outcomes are among your top priorities. ApexPro FH helps address both with exceptional detection and analysis of patient data to help you monitor your patients' status more thoroughly and accurately.

- ApexPro FH 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 unnoticed¹
- ApexPro FH also uses an innovative Smart Leads Fail feature that provides uninterrupted monitoring and algorithm analysis in the event of an electrode failure
- With the EK-Pro algorithm, ApexPro FH 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
- 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
- ApexPro FH supports the acquisition of six frontal plain leads and two precordial 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
- The flexible design of ApexPro FH allows each transceiver to monitor only the parameters each patient requires. Continuous monitoring of ECG and SpO₂ allow caregivers to tailor monitoring according to the patient's acuity
- Masimo uSpO₂™ Pulse Oximetry Cable, utilizing Masimo SET® Measure-through Motion and Low Perfusion™ pulse oximetry technology, delivers accurate oxygen saturation (SpO₂) and pulse rate readings for a high detection of true events and a low incidence of false events. This technology may enable clinicians to intervene earlier for potentially better patient outcomes and increased patient care while simultaneously helping to reduce clinician alarm fatigue

(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.*

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

Designed to be both backward-compatible and forward-flexible, ApexPro FH enables you to extract maximum value from your telemetry system while helping protect your investment over time. This accommodates today's requirements while allowing for the capacity for future expansion.

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