

Dantec Keypoint Systems reflect more than 50 years of experience in EMG system design – incorporating the latest in digital signal processing, quantitative EMG signal analysis & data management:

Productivity Oriented User Interface

The new look presented by Keypoint.Net software is much more than a pretty face. Unlike other computer-based EMG systems, Keypoint users do not face abstract menus and submenus of choices. Keypoint's new "browser-like" tabbed interface is instantly familiar and comfortable. It organizes information and provides an intuitive means of navigating the system.

Crystal Clear Signal Quality

What else would you expect from Natus Neurology? Dantec Keypoint is the result of more than 50 years of high quality EMG amplifier design experience. Another result of this experience is the unique 3-channel (also available in 6 and 8 channels) input system. Motor NC, Sensory NC, and EMG needle cables connect to the three inputs simultaneously and are instantly available during studies without the need to swap cables.

Rules-based EMG findings

Go beyond simple sentence generators found in typical report writers. Imagine an EMG system so attuned to you that it even thinks about EMG signals like you do. Keypoint's exclusive EMG Findings feature looks at muscle scoring using "your rules" and automatically inserts "your conclusion" based on the individual scores you assign.

Peak Triggering Single Fiber

Simply put, the new "peak detection" method is a game changer. First, peak detection eliminates the need to manually set the start and stop levels used on other systems to reduce the recording of spurious signals. Second, measurements made from the peaks can be made even when the second potential is "riding" on the falling phase of the first. Last but not least, in a signal with multiple spikes, all peaks are analyzed simultaneously by the peak-detection method, eliminating the need to reanalyze the signals. Further details can be found in the article *Jitter Recordings with Concentric Needle Electrodes**.

Beyond Template Matching for MUP Analysis

Until now, simple template matching has been considered "as good as it gets" in extracting MUPs. Keypoint analysis algorithms go beyond simple template matching and consider multiple signal parameters. This improved method results in faster analysis due to fewer artifacts and significantly less effort.

Online Comparison to Normative Data

Only Keypoint provides online comparison to normative data for all test types: Nerve conduction, EMG, SF-EMG, EP. The MUP analysis is supported by normative data collected in a multi-center study. The reference data includes mean and outlier limits for MUP duration, amplitude and area for 21 commonly used muscles. Additionally, the normal limit for mean percentage of occurrence of polyphasicity is provided.

*Jitter recordings with concentric needle electrodes. Stålberg EV, Sanders DB. *Muscle Nerve*. 2009 Sep;40(3):331-9.