HanAra
Software

HanPHI provides **early warnings** of potential and hidden equipment failures in advance. The early warnings provide an indication of system abnormalities so that the user can avoid or reduce equipment failure. Rather than relying on alarm setpoints, HanPHI early warnings are based on the continuously calculated and dynamic health index.

With early warnings, organizations have **increased lead time** to identify potential and hidden failures, analyze the situation, and create an effective strategy to prevent the potential failure.

How It Works

HanPHI generates early warnings based on the health index. There are 3 levels of early warnings with the default warnings occurring at: 75% (priority 3), 50% (priority 2), and 25% (priority 1). If needed, an organization can further customize the early warning levels for the entire site or individual pieces of equipment. The health index is calculated

by **comparing real-time values with the expected values**. Therefore, the early warnings indicate and highlight potential problem areas in the current operation and environment. Beyond **identifying potential and hidden equipment failures**, HanPHI also alerts organizations of potential sensor issues, including mismapped and failed sensors. When HanPHI generates an early warning, the user is notified of the need for further investigation through the software or via text and email notifications.

In addition, users conveniently identify, search, and filter current or historical alarms in HanPHI Alarm. The user is able to acknowledge the warning, view historical warnings, and leave a comment. The comment feature allows an organization to keep its historical equipment memory in one centralized location. This enables users to view past early warnings, how they were resolved, and the result.

What's the Value?

HanPHI is capable of monitoring all of the equipment all the time, pinpointing areas where the plant should focus. With HanPHI, the plant can rest assured they are monitoring the real-time status of the plant and making decisions based on quality information. Instead of relying on alarm setpoints, HanPHI early warnings alert users of issues that, if not addressed, may lead to catastrophic failure.

As a result of the increased lead time from the early warnings, organizations experience improved operations, reduced costs, and increased overall safety. With HanPHI early warnings, you can utilize predictive rather than reactive maintenance strategies.