SUCCESS STORY

Embedded Software
...for 4-20 mA HART Vibration Sensor

The Client
Wilcoxon Sensing Technologies in Germantown, Maryland, USA is a subsidiary of the globally operating Amphenol Corporation, specializing in vibration sensing technologies for harsh industrial environments.

The Idea
Wilcoxon developed a vibration sensor particularly for applications in the chemical and oil & gas industries. As common and often necessary in process automation, the sensor should communicate using the HART protocol. Wilcoxon was in search of a partner with special expertise in this area and made a find with MESCO!

The Objective
The main objective of MESCO consists of realizing the Embedded Software on the basis of the MESCO HART Stack 7.5.

The project in detail...
• Transferring and integration of the MESCO HART Framework as well as the integration in the application from Wilcoxon
• Realization of the field bus connection via the 4-20 mA interface
• Development and delivery of the C Code, Compiled Code and the Release Notes
• Organization of FieldComm Group pre-certification tests — with the aid of the official toolkit (for data link and application layer tests)
• Development for device descriptions

The Success
Wilcoxon could optimally use its resources by concentrating on its core competence, the vibration measurement.

With the development services, the HART expertise and the HART Stack, or the HART Framework, from MESCO, Wilcoxon also has the advantage that it can develop the product faster and safely and bring the product to the market.

Vibration Sensor
The tiny vibration sensor with Two Wire Technology serves mainly as vibration monitoring of machines and plant components in production processes.

Additional Advantages
• Smooth certification of the sensors by the FieldComm Group
• Very good and thorough documentation
• Reduction in cost through the trusted HART Slave Stack certified in diverse projects and devices

Summary
The entire project can be concluded within the desired time and cost frames. Wilcoxon was overall pleased with the problem-free cooperation, the dedicated MESCO team and the very professional project management.

We develop for you, too.
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...where ideas turn into success!