framatome

DAW4

Mobile Diagnosis of Valves and Actuators

Parallel acquisition of mechanical and electrical data for the diagnosis of valves and actuators to improve their reliability

Challenge

Valves and actuators must be installed correctly to avoid damage to the valves. Damaged and malfunctioning valves or actuators may lead to unplanned shutdowns of the plant. To ensure the proper functioning of the Motor Operated Valve, periodic monitoring is recommended. After maintenance, actuators must be set to the correct torque switch value on a calibration bench, which then must be documented. After remounting the actuator to the valve, limit switches have to be adjusted and the correct setup should be documented. No torque / thrust measurement is available after remounting the valve.

Solution

DAW4 enables parallel measuring and recording of electrical and mechanical data for the diagnosis of valves and actuators. An extensive range of input channels makes it possible to diagnose the electric drive as well as the mechanical components. The system is based on the SIPLUG® technology which has proven its worth in numerous measuring tasks for valve and drive diagnostics.

With DAW4 the service team is able to perform in-situ measurements directly at the valve, acquire simultaneously torque and force data (with strain gauge measurement) as well as the electric data of the actuator and the limit switches. With the result of these measurements, verification of correct dimensioning of valve and actuator as well as the precise setup is easily possible.

Customer benefits

- One measurement device for various measurement tasks
- Usable for test bench and in-situ measurements
- Acquisition of electric and mechanic values simultaneously with one measurement device
- Intuitive handling of hard- and software
- Additional input data for ADAM® 64 monitoring- and diagnostic software

Your performance
is **our** everyday **commitment**

DAW4 - Acquisition of mechanic and electric values in one device

Technical information

- Acquisition of mechanic and electric values in one device
- Acquisition of actuator supply up to 480 V / 100 A
- Different active power measurement ranges available for high measurement accuracy 3,5 kW, 7 kW, 14 kW, 35 kW, 70 kW
- Galvanic separation of all measurement channels
- Up to eight switch signal detection channels (0-250 V AC / DC)
- Up to four channels for torque, thrust or displacement measurement

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