

Title (en)

METHOD AND SYSTEM FOR DIAGNOSING MECHANICAL, ELECTROMECHANICAL AND FLUID COMPONENTS

Title (de)

VERFAHREN UND SYSTEM ZUR DIAGNOSE VON MECHANISCHEN, ELEKTROMECHANISCHEN ODER FLUIDISCHEN KOMPONENTEN

Title (fr)

PROCEDE ET DISPOSITIF POUR DIAGNOSTIQUER DES COMPOSANTES MECANIQUES, ELECTROMECHANIQUES OU FLUIDIQUES

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Application

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Abstract (en)

[origin: WO2006117376A2] The invention relates to a diagnosis method and system comprising a structure-born noise sensor (1) which transmits, in a bandpass filtered manner, a measuring signal (3) based on the mechanical resonance frequency and capacity (CO) thereof and on an inductance (LI) and an evaluating device (4) in which the frequency, at which the measuring signal (3) level exceeds a predetermined threshold value, is defined and which is used for producing an error signal (9), when the frequency exceeds a second predetermined threshold value. As far as the diagnosis performance requires a small number of electronic components and a low power supply, the diagnostic can be integrated into existing devices, in particular into process instrumentation field devices for which a restricted quantity of operating power is available. Said invention is advantageously used for identifying a valve leakage with the aid of an electro-pneumatic positional regulator.

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