

Title (en)  
METHOD FOR DIAGNOSING AN OPEN- AND/OR CLOSED-LOOP CONTROL SYSTEM, AND OPEN- AND/OR CLOSED-LOOP CONTROL SYSTEM

Title (de)  
VERFAHREN ZUR DIAGNOSE EINES STEUER- UND/ODER REGELUNGSSYSTEMS SOWIE STEUER- UND/ODER REGELUNGSSYSTEM

Title (fr)  
PROCÉDÉ POUR DIAGNOSTIQUER UN SYSTÈME DE COMMANDE ET/OU DE RÉGULATION ET SYSTÈME DE COMMANDE ET/OU DE RÉGULATION

Publication  
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Application  
**EP 21759090 A 20210813**

Priority  
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Abstract (en)  
[origin: WO2022038060A1] In a method for diagnosing an open- and/or closed-loop control system of a process engineering plant having a plurality of actuating units (1i) for setting a process fluid and a central unit, the following steps are provided: (a) detecting (200) at least one actuating-unit-specific control raw datum, such as a setpoint value (w), an actual value (s), a setpoint-actual difference value (d) or a control value (g); (b) generating (300) at least one more particularly local diagnosis code (Dj, Dij) by one of the plurality of actuating units (1i) on the basis of the at least one detected control raw datum; (c) transmitting (400) the at least one diagnosis code (Dj, Dij) from the respective actuating unit (1i) to a central unit (3); (d) transforming (304, 404) a local diagnosis code (Dj), which comes from a particular actuating unit (1i) and/or relates to a particular actuating unit (1i), into a global diagnosis code (Dij) in that the local diagnosis code (Dj, Dij) is linked to an actuating-unit-specific identifier (li), (e) defining (603) at least one logical condition for a diagnosis deduction logic (γ) such that when the at least one logical condition is applied to at least one diagnosis code (Dj, Dij), the diagnosis deduction logic (γ) determines a predetermined deduction result (K), and (f) determining (500) at least one deduction result (K) by means of the diagnosis deduction logic (γ) on the basis of the at least one diagnosis code (Dj, Dij) in the central unit (3).

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