

ABSTRACT

RISK ASSESSMENT DEVICE, RISK ASSESSMENT SYSTEM, RISK ASSESSMENT METHOD, AND RISK ASSESSMENT PROGRAM

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10 A risk assessment device includes a diagnosis result storage unit that
accumulatively stores diagnosis results of a plurality of diagnoses regarding each process
device in association with installation sites of the process devices, a calculation model
storage unit (334) that stores a calculation model for calculating a probability of
malfunction of a process device, a malfunction ratio calculation unit (335) that calculates,
15 based on diagnosis results regarding process devices that are and have been provided at a
target installation site, a malfunction ratio that is a ratio of process devices that had
malfunctioned by the time a reference period had elapsed from when the process devices
were installed at the target installation site, a malfunction probability calculation unit
15 (336) that calculates, based on the calculation model, a probability of malfunction that is a
probability that a process device provided at the target installation site will malfunction
within the reference period, and a risk index value calculation unit (33) that calculates a
risk index value of a process device provided at the target installation site, through
comparison between the calculated malfunction ratio and the calculated probability of
20 malfunction.

[Fig. 4]