

Title (en)
METHODS AND DEVICES FOR ERASING ERRORS AND COMPENSATING INTERFERENCE SIGNALS CAUSED BY GAMMAGRAPHY IN RADIOMETRIC MEASURING SYSTEMS

Title (de)
VERFAHREN UND VORRICHTUNG ZUR FEHLERAUSBLENDUNG UND -KOMPENSATION VON DURCH GAMMAGRAPHIE HERVORGERUFENEN STÖRSIGNALEN BEI RADIOMETRISCHEN MESSSYSTEMEN

Title (fr)
PROCEDE ET DISPOSITIF DE SUPPRESSION ET DE COMPENSATION D'ERREURS DE SIGNAUX PARASITES DUS A LA GAMMAGRAPHIE DANS DES SYSTEMES DE MESURE RADIOMETRIQUES

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Abstract (en)
[origin: WO03052396A2] The invention relates to methods and devices for erasing errors and compensating interference signals caused by gammagraphy in radiometric measuring systems according to process measuring techniques. The inventive device comprises an input for measuring values $L_m(t)$ of process variables $L(t)$ measured by the detector, an input for at least one non-radiometrically measured and optionally monitored first process parameter $P_1 = P_1(t - \tau)$, whereby the modification thereof leads to a delay in a modification of $\Delta L_m = L(t_j) - L(t_{j+1})$ of the radiometric measuring value $L_m(t)$, amounting to a delay time τ_k , which can also be $\tau_k = 0$; an output which is connected to a process control system, and a detection and error compensation device, which when an operational measuring mode determines the modification $\Delta L_m = L(t_i) - L(t_{i+1})$ on the basis of radiometric measuring values $L_m(t_i)$ and $L_m(t_{i+1})$ detected by the detector at two consecutive random times t_i and t_{i+1} and a comparison is effected by means of the mathematical interrelation $\Delta L_m = f(\Delta P_1)$, with respect to a modification $\Delta P_1 = P_1(t_i - \tau) - P_1(t_{i+1} - \tau)$ of the first non-radiometric measured process parameter detected in the corresponding time interval.

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