

Title (en)  
APPARATUS AND METHOD FOR THE ANALYSIS OF SIGNAL FREQUENCIES

Title (de)  
VORRICHTUNG UND VERFAHREN ZUR ANALYSE VON SIGNALFREQUENZEN

Title (fr)  
APPAREIL ET PROCEDE D'ANALYSE DE FREQUENCES DE SIGNAUX

Publication  
**EP 1379844 A1 20040114 (EN)**

Application  
**EP 02722423 A 20020418**

Priority

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Abstract (en)  
[origin: WO02084234A1] The apparatus is an asynchronous data logger (ADL) comprises a sensor (1) and, in a preferred embodiment, three sampling channels. Each channel comprises an analogue to digital (A/D) converter (3), a sampling clock (4), a memory (5) and a microcontroller (6) that controls sampling, storing and communication of data in the particular channel. The ADL also has a master microcontroller (7) which provides overall control of the ADL and communicates with a data processing means which analyses the data provided by the sampling channels. The sampling channels sample the signal at first, second and third sampling rates, respectively, where the second sampling rate is  $n-R_1$  Hz and the third sampling rate is  $n+R_2$  Hz, and where  $R_1$  and  $R_2$  are much less than  $n$  and  $n$  is the first sampling rate. The data processing means then applies a frequency analysis technique to the sampling data of the channels to derive a resultant frequency of the signal.

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Citation (search report)  
See references of WO 02084234A1

Citation (examination)

- US 5099194 A 19920324 - SANDERSON RICHARD B [US], et al
- DE 4330425 A1 19940310 - AEROMETRICS INC [US]

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