Title (en)

BUS LOADING METER USING DIGITAL ENVELOPE DETECTOR

Title (de)

BUSLEISTUNGSMESSER MIT DIGITALEN HÜLLKURVENDETEKTOR

Title (fr)

APPAREIL DE MESURE DE LA CHARGE DE BUS UTILISANT UN DETECTEUR D'ENVELOPPE NUMERIQUE

Publication

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Application

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Priority

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- GB 9723557 A 19971108

Abstract (en)

[origin: WO9925097A1] A bus loading meter for a controller area network (CAN) comprises a CAN transceiver (10) which converts an incoming CAN signal to a standard digital (TTL) signal. A counter (20) is provided for capturing the start-of-frame (SOF) and end-of-frame (EOF) of the signal by calculating the number of recessive bits present before a dominant bit (to determine the SOF) and after a dominant bit (to determine the acknowledgement slot) which is followed by seven successive recessive bits indicating the EOF. The meter further comprises a message frame converter (30) which is triggered by receipt of a start pulse from the counter (20) to start counting. Such counting is subsequently terminated on receipt of an end pulse from the counter (20) which resets the converter (30). A message envelope is formed at the output of the converter (30) which is supplied to a volt meter (40) providing a visual indication of the percentage bus loading. The converter (30) is controlled by a frequency switch (32) supplied by a crystal oscillator.

IPC 1-7

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IPC 8 full level

H04L 12/28 (2006.01); **H04L 12/413** (2006.01); B60R 16/02 (2006.01); B60R 16/03 (2006.01)

CPC (source: EP)

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