

ENERGY TECHNOLOGY

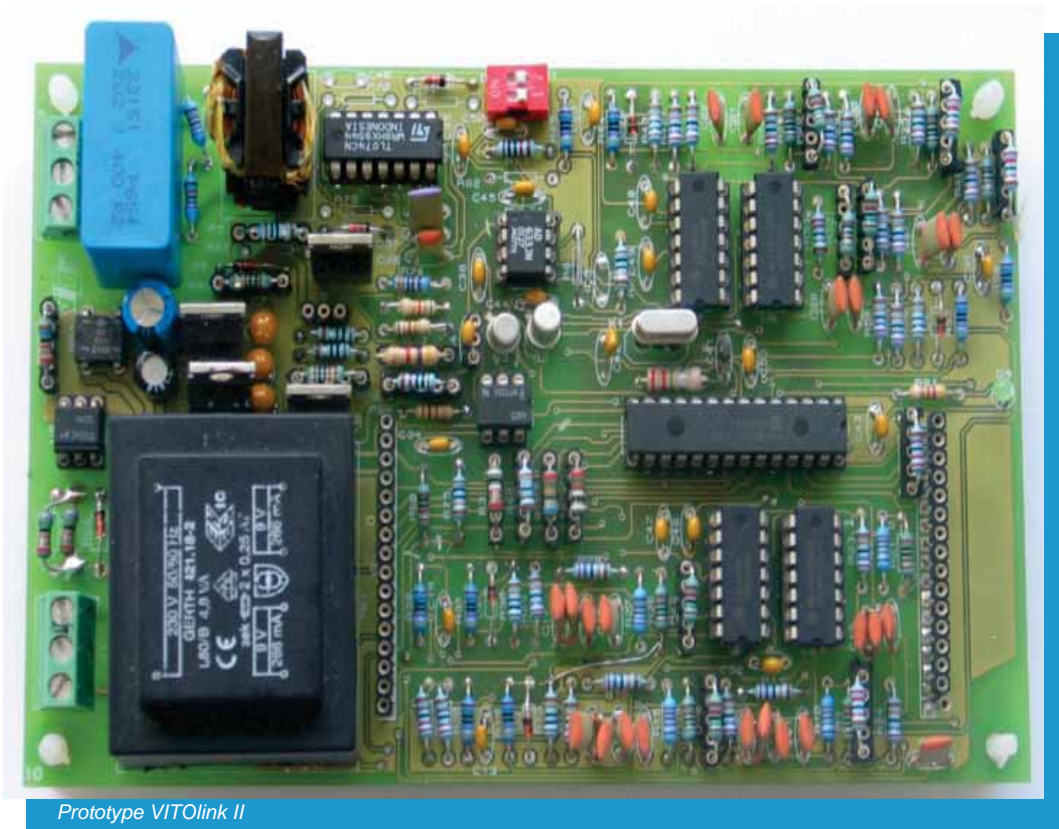
VITOLINK II

What

VITOLink II is a power line communication (PLC) method for sending control signals over existing power lines. This eliminates the need for additional wiring. VITOLink II can send/receive control signals.

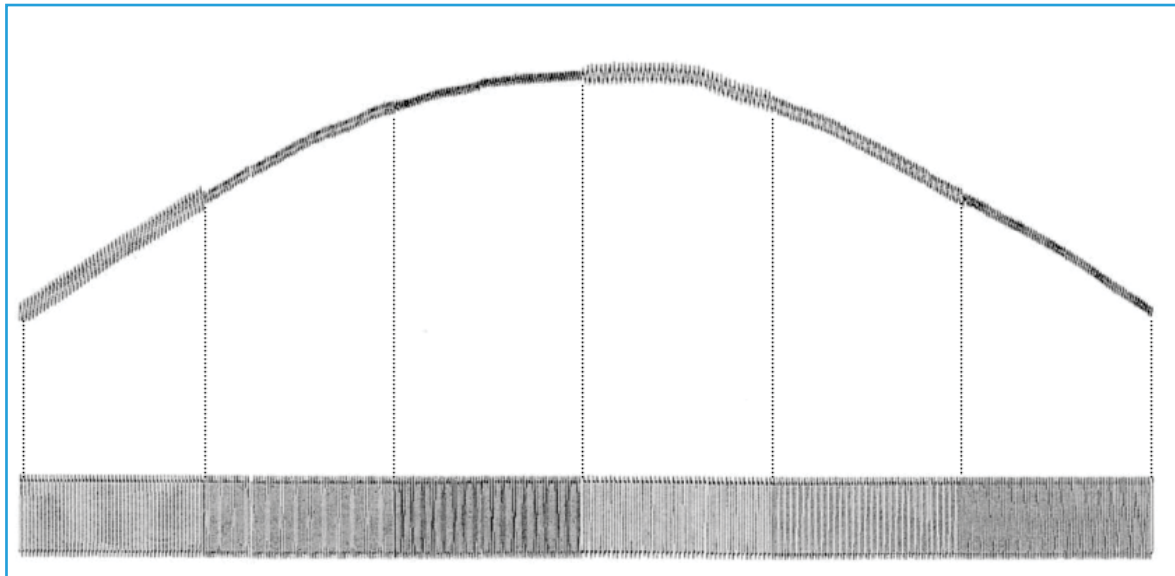
Benefits

- » Uses the existing power lines for control signals and keeps cabling costs low.
- » High immunity to network noise by using 6 different hopping frequencies.
- » High immunity against network noise due to use of 50 Hz grid frequency as carrier signal.
- » Works in grid owners band (9-95 kHz) or public band (95-145 kHz).
- » Long distances in grid owners band with low frequency (<60 kHz).
- » Long distances without repeater with sensitive receivers, typical 50 dB distances up to 1 km.
- » High power level for industrial environment 134 dB (μV) (10 V between phase) or low 116 dB (μV) for domestic environment.



How

VITOLink II transmitter and receivers are connected to existing power lines. They can be used in the industrial distribution band (9 – 95 kHz) and in the commercial band (95 – 148.5 kHz). When a control signal has to be sent, the transmitter adds a carrier signal on the power line. At the receiving end, the receiver recovers the data from the power line by demodulation.



Principle for modulation of the data signal onto the power line

Potential applications

- » Remote control of street lighting;
- » Automatic meter reading;
- » Control of indoor lighting and emergency lighting;
- » AC-line monitoring;
- » Remote control of emergency systems;
- » Energy control and management;
- » Remote load control;
- » Home automation.

For references, contract terms and additional information, please contact:

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