



## High-end products for data communication

### FMN communications GmbH presents new developments

Nordhausen, March 31, 2005 – The company located in Nordhausen, Germany, with the core competencies radio technology, industrial electronics and telecommunications presents innovative products of multimedia communication based on latest technologies of the Wireless Sensor Networks at the Hannover Messe 2005 (hall 7, stand A41).

By means of the Wireless Sensor Networks, you can spontaneously set up intelligent Wireless Sensor Networks that are organizing themselves.

Two different sensor modules are available for this purpose. The **alpha<sup>®</sup> WSN SM 230** is for connecting external sensors and offers analogue voltage and current inputs as well as digital inputs and outputs. Actuators can also be connected to this sensor module. Several temperature sensors can be connected to the sensor module **alpha<sup>®</sup> WSN SM 240**.

The repeater module **alpha<sup>®</sup> WSN RM 300** is for increasing the range and for optimising the data transmission.

The modules are offered as PCB version or in an explosion-proof housing with ATEX approval for rough ambient conditions.

The values are transmitted by radio to the base module **alpha<sup>®</sup> WSN BM 120** which transfers the data via an RS232 or an USB interface. Further base modules are the **alpha<sup>®</sup> WSN BM 110** with LAN or RS232 interface as well as the **alpha<sup>®</sup> WSN BM 130** with WLAN or RS232 interface.

By means of the modules, you can set up ad-hoc networks without additional configuration effort. Different network topologies can be realized (point-to-point, point-to-multipoint, mesh network). By means of a network software, every module can also function as repeater.

An intelligent power management and the use of latest hardware components guarantee a long battery lifetime. The sensor modules can as well be supplied with voltage (4.5...30 V DC) externally.

Different parameters of a module, like for example sampling interval, min. / max. values, can be changed via the radio interface.

The PC software **alpha<sup>®</sup> data view** makes a clear representation of the measured values, the saving of the data and an alarm signal in case limit values are exceeded possible. The sampling intervals or minimum and maximum values can also be changed by radio via the PC software.

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All wireless modules of the Wireless Sensor Networks work in the ISM band 868 MHz. The range is up to 60 m within buildings and approx. 400 m outside buildings in the free field and may be increased by using repeaters.

Customized adjustments are possible.

The sensor data can be recalled in the Intranet or Internet and is consequently at the respective user's disposal company-wide or worldwide.

Because of the small, compact design and the functionality in a wide temperature range, the modules may be used in various applications. Possible applications are for example the wireless transmission of sensor data, the transmission of data from and to mobile components. Fields of application are among other things the automation, medical technology, monitoring of objects or agriculture (e. g. transmission of measured values of temperature and humidity in a storehouse and silo).

State-of-the-art radio data modems (in a compact and sturdy design), innovative radio sets for voice and data transmission (predestined for the use in the public transport sector) and light signalling receivers further belong to FMN's range of products.

Besides, the company develops manifold solution possibilities for electronic systems that are adjusted to the individual customer requirements. Almost unlimited application possibilities for GPS data acquisition and transmission, network connection, public transport sector, telecontrol and remote maintenance are given.

Development, manufacturing and sale of high-quality products of telecommunications, like payphones, ISDN and special telephones, complete the offer of FMN.

With **alpha<sup>®</sup> IP4 $\mu$** , the FMN communications GmbH extends its range of payphones by IP coin-operated payphones. The SIP technology that is used for this assures the guaranteed future and independence from carriers. By using cost-saving flat rate offers for telephony by means of voice-over-IP for a payphone, the profit margin of the operator can be raised considerably. There will be no change for the user regarding the operation of such units up to now because of the connection of these telephones to the Internet. The user won't even realize the change in technology.

With **alpha<sup>®</sup> payLAN NW**, the FMN communications GmbH offers a HotSpot that can be integrated into a network, at which you can pay via coins or as well online by means of T-Pay. The costs for the time unit can be set by the operator individually. Whether in the beer garden, in a club or in the hotel lobby, you can offer HotSpot services against simple payment without

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additional costs for personnel by integrating the **alpha<sup>®</sup> payLAN NW** in an existing LAN. No new DSL connection is required for the operation of the **alpha<sup>®</sup> payLAN NW**.

**alpha<sup>®</sup> call&surf** – The HotSpot telephone is a combination of ISDN club telephone and pay HotSpot with integrated DSL modem. In addition to an Internet access via WLAN and DSL that has to be paid directly, you can realize usual telephone services in high quality. The payment for the use of the different services can be made directly by the user with coins, the payment for the online use can additionally be made via T-Pay.

Up to 16 Internet users can be administered simultaneously at the WLAN pay HotSpots **alpha<sup>®</sup> call&surf** or **alpha<sup>®</sup> payLAN NW** in stand-alone operation.

The WLAN pay HotSpots of FMN are also available in versions for the operation at a background and management system that was especially developed for this purpose. Therewith, other payment systems like credit cards etc. may be used for the payment in addition to coins. Any easy, convenient and centralized monitoring and control of the HotSpots is made possible for the operator by means of the background and management system.

You can get further information about FMN and its products in the Internet under <http://www.fmncom.com>. All press releases are available for download under [http://www.fmncom.com/presse/frame\\_presse.html](http://www.fmncom.com/presse/frame_presse.html).

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