

mazore

Trading Ltd

distance under control



Remote

INTELLIGENT REMOTE-MONITORING AND CONTROL

Our remote is designed to alert and deliver off-site meter readings and to provide surrounding location data-informing the right people with the right information, independent of location and time. Operating over a Mobile Data Communication Network (GSM), commands can be sent from your mobile telephone to a remote-device while you are at your office-desk, in your car or at home. Alternatively, statusconfirmations of off-site devices can be monitored 24 hours a day from a stand-alone desktop PC.

Research showed that our customers require a product, highly adaptable to a wide-range of demanding applications. The remote is programmable to incorporate add-on devices for specific functions to achieve vital readings and data-capture. Our remote devices are backed-up by an impressive list of standard features (see below). An integrated GSM module, combined with a high-performance processor, provides for extensive memory capacity and numerous application possibilities - offering the customer to lower the total cost of ownership compared to other human-intensive on-site solutions.

With our remote, you only need to identify and inform us of your measurement and data requirements to keep an eye on the overall picture more cost-effective and efficiently.

Standard Features

- Simple and scalable user specific applications environment
- Natural human speech information announcement enabled
- DTMF signaling recognition
- GPRS supported
- Choice of communication - by Data-Call, GPRS, SMS or Voice
- Choose to individually modify data, application software, firmware and announcements, over the built-in serial interface or by air interface (AI) connected through a modem to a PC
- An integrated development environment (IDE) for Windows with an extensive and integrated simulator included as standard ware, enabling applications in a BASIC/PASCAL like programming language to be developed without the use of an additional device
- Housings for indoor and outdoor use available



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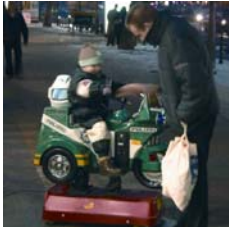
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Pre-Installed User Applications



ALARM SYSTEM – Your Home Has an Intruder and Nobody is Alerted!

Should your home be a victim of forced-entry, an alarm will be triggered to alert neighbours that a break-in has occurred. With our remote, a voice and/or SMS message is immediately relayed from the installed unit to the responsible alarm-monitoring call-centre, police and property-owner, informing a forced-entry has taken place. It is possible to pre-programme the installed unit to monitor, switch on/off and regulate your heating-system and other electrical installations such as indoor / outdoor lighting and water-systems, using the built in speech system from a mobile GSM or fixed-line telephone.



VENDING MACHINES MONITORING – All Over the City, All in Opposite Directions

Vending machines and the likes are all but often located in off-site public locations such as office-buildings, train-stations and schools. You can use the remote to easily monitor vending machines; if they are switched on? If they are operating properly? How many units are still in the machine or how much money has been deposited? The results - route planning can be ideally optimized – half empty vending machines do not need to be included on the daily visit route. The installed remote-monitoring device immediately alerts breakdowns and defects which can be seen to without delay and without risk of loss of income.



REMOTE METERING – Consumption Under Control

The remote can monitor and forward actual meter-readings of power or water consumption at regular user pre-defined intervals. Utility companies find such measuring tools invaluable, making it possible to record and invoice the end-consumer cheap night power and the expensive day power separately. Home rental companies have a value-added benefit to offer immediate and exact readings of power, gas and water for their tenants.



MONITORING CENTRES – Monitoring 24-Hours-A-Day, 365 Days a Year

With the remote, the device is configured to alert a Monitoring-Centre at the onset of the of a house-alarm being set off during a break-in. Security professionals initiate customer pre-arranged measures by informing the police, on-location security guards and contacting the property owner.



MEASURING ANALOGUE VALUES – Always the Right Conditions

With the remote, temperature, storage capacities and flow levels readings and measurements can be forwarded to a central-control centre.

For example, as an alert in a water purification plant, for the measuring and continuous observation of environmental data and as a control module to transmit periodically readings over the GSM network.



VOICE RESPONSE – For Customers Always on the Go

The remote has been developed and programmed to be able to call and relay information in a natural human voice over the telephone and inform the person concerned with actual updates on certain processes or emergency alerts, for example, **"..There has been an unauthorized opening of the front right-side passenger door of your vehicle..."** The forwarding of operational break downs - **"...vending machine number 12 is defective..."** and the status of operations **"...the cola, water and iced tea stock in vending machine number 34 are sold out..."** are fully supported.

As an alternative or in addition, this information can also be sent as an SMS or called up at any time on the computer.

Device Programming for User-Specific Applications

For special applications that have not yet been implemented into the device, the remote is unusually fast and easy to program. All that is needed is a normal PC that can be simultaneously used as a simulator for all functions such as GSM, SMS, I/Os, phone calls, etc.

Complicated, time consuming, user-specific application test preparations are unnecessary – if the program can run on the computer, then it can run on our remote. A program editor, with syntax-sensitive color representation, and amongst others a compiler, are at your disposal for programming purposes.

Voice recordings are supported by the remote, using existing recordings is no problem at all.

Features List

- Siemens Dual-Band GSM module with GPRS support
- Standard SIM card-reader
- 1,000 – 1,500 Kbytes of memory
- Voice announcements (110 - 180 seconds)
- DTMF touch tone recognition
- 4 - 12 digital Inputs
- 4 - 12 digital Outputs
- 0 - 4 analogue Inputs
- 0 - 4 analogue Outputs
- RS232 interface to connect a PC (service input), 1,200 bps – 57,600 bps
- RS485 connection for up to 32 simultaneously connected devices, 110 bps – 115,000 bps (optional)
- Long-Life Battery backed Real-Time clock
- 2-3 light-emitting diodes, each with 4 possible states (Red/Green/Orange/Off)
- High-Speed Fujitsu CISC processor, 16 bit, 16 MHz
- GSM module headset signal, available on an internal connector
- Various housings: DIN rail M36, plastic housing according to IP67, aluminum housing
- Monitoring of power supply (8-34V and 220V) by a simple application
- Extensive power-saving functions, easy to configure
- Possible simultaneous execution of 16 user-application programs with 2 different priorities
- Software updates over either AI (air interface) or serial interface
- Approvals: CE, EN-50081-1 Emission, EN-61000-6-2 Immunity
- LCD display (DIN rail housing only)



Connectors

- 1 - 2 SUB-D9M connectors for RS232
- SUB-D25M connector or terminal strip for power supply, I/Os, RS485 (remote-30 and remote-31 only)
- SMA connector for the GSM antenna (cellular phone network)

Products

Product	Part-No.	Article Description	Price
Remote-27	REM-02-27	Basic module, user-programmable, includes integrated development environment (IDE) and full feature simulator Housing: DIN rail M36	679,-- Euro
Remote-29	REM-02-29	Basic module, user-programmable, includes integrated development environment and full feature simulator Housing: plastic housing (IP67)	679,-- Euro
Remote-31	REM-02-31	Basic module, user-programmable, includes integrated development environment and full feature simulator Housing: aluminum housing	449,-- Euro
Extension-08	ERW-02-08	GPRS support (upgradeable)	59,90 Euro
Extension-10	ERW-02-10	RS485 - Upgrade for the simultaneous connection of up to 32 serial devices, for all remote models	119,-- Euro
Antenna-10	ANT-02-10	GSM window antenna with 3m connection cable	34,90 Euro
Antenna-17	ANT-02-17	GSM mast antenna with SMA connector	24,90 Euro
Accessory-20	ZUB-02-20	Serial cable PC ↔ remote, length 2m, for the transmission of data, programs and firmware between a PC and remote-27/29	8,90 Euro
Accessory-21	ZUB-02-21	Serial cable PC ↔ remote, length 2m, for the transmission of data, programs and firmware between a PC and remote-31	8,90 Euro
Accessory-23	ZUB-02-23	Emergency call-button surface mounted	29,90 Euro
Accessory-24	ZUB-02-24	Illuminated emergency call push-button, 8.1 mm with light bulb	6,90 Euro
Accessory-26	ZUB-02-26	Plug-in power supply unit, 12 volts, for the operation of remote-31 with 220 volt alternate current; all signals available on a separate SUB-D25M connector	29,90 Euro
Accessory-29	ZUB-02-29	Cable to connect to 220 volt alternate current, 2m, three-pin plug for remote-29	8,90 Euro
Accessory-30	ZUB-02-30	Radio controlled remote-control for edging and defusing the system	105,-- Euro
Accessory-32	ZUB-02-32	12 volt battery 700mAh with charging electronics	79,90 Euro
Accessory-34	ZUB-02-34	Sub-D-plug with 25 contacts, with spring clips for plugging in testing wires, sensors, etc. for remote-31	29,90 Euro