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**REMOTE  
CONTROL AND  
MONITORING**



**Screen Service**





**REMOTE DATA FRONTEND**



**RDF EXPANSION UNIT**

**PRINCIPALI CARATTERISTICHE:**

- > Allarmi multilivello sonori, visivi e telefonici.
- > Firmware dedicato.
- > Gestione, visualizzazione ed esportazione delle statistiche.
- > Software disponibile in diverse lingue.
- > Ampia gamma di accessori ed interfacce.
- > Funzioni di diagnostica e ripristino automatici.
- > Programmazione della rete da qualunque unità.
- > Visualizzazione geografica della rete su più livelli.
- > Sofisticata gestione delle password d'accesso.
- > Totale accesso alla programmazione di ogni funzione.

**MAIN FEATURES:**

- > Multilevel sound, visual and telephone alarms.
- > Dedicated firmware.
- > Management, visualization and exporting of statistics.
- > Software available in several languages.
- > Wide selection of accessories and interfaces.
- > Automatic trouble-shooting and reset functions.
- > Network programming from any unit.
- > Geographic network display on several levels.
- > Sophisticated management of access passwords.
- > Total access to programming of all functions.

**CARACTERÍSTICAS PRINCIPALES:**

- > Alarmas de niveles acústicos, visuales y telefónicos diversos.
- > "Firmware" dedicado.
- > Gestión, visualización y exportación de estadísticas.
- > Software disponible en diferentes idiomas.
- > Amplia gama de accesorios e interfaz.
- > Funciones de diagnóstico y restauración inmediata.
- > Programación de la red desde todas las unidades.
- > Visualización geográfica de la red a distintos niveles.
- > Gestión sofisticada de las palabras clave de acceso.
- > Acceso total a la programación desde todas las funciones.

Il sistema di supervisione e controllo remoto permette di monitorare e gestire in tempo reale qualunque apparecchiatura di qualunque marca, gruppi elettrogeni, batterie, porte di ingresso delle postazioni, livelli di liquidi, da una o più stazioni centrali fisse o mobili.

La dimensione della rete di controllo remoto non ha praticamente limiti e può essere configurata per gestire un solo apparato o un centro di telecomunicazioni, fino a realizzare completi network nazionali.

Le unità dialogano e si scambiano i dati tra di loro per mezzo di radio in isofrequenza utilizzando frequenze dedicate per teleallarmi, o tramite linee dedicate, su linea telefonica, GSM, internet o satellite.

Il sistema è completamente modulare e flessibile e permette la ri-configurazione dell'intera rete o di una parte di essa da una qualsiasi delle unità installate o da una unità mobile.

Un sofisticato software, con interfaccia grafica intuitiva, permette di misurare i parametri di tutti gli impianti in tempo reale, di controllarli a distanza, di visualizzare l'andamento storico delle misure e di impostare individualmente le soglie oltre le quali far intervenire le segnalazioni di allarme a video o telefoniche verso numeri pre-impostati.

E' possibile l'acquisizione di dati da qualunque apparecchiatura elettronica ed una serie di accessori ne permettono l'impiego non solo nel settore del broadcasting, ma anche nei settori industriale, civile e militare.

*This remote control and monitoring system allows the real-time control and monitoring of any appliance of any make, generator sets, batteries, station entrance doors, liquid levels, by one or more fixed or mobile central stations.*

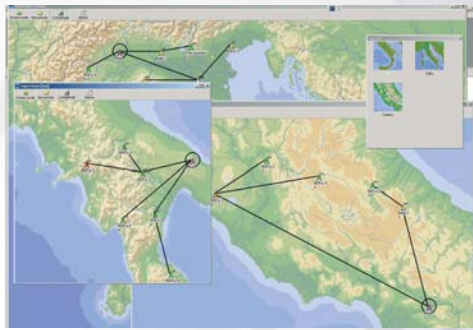
*There is practically no limit to the size of the remote control network and it can be configured for the control of a single appliance or of a telecommunications centre, even to the extent of covering complete national networks.*

*The units exchange dialogue and data via radio in isofrequency, using frequencies dedicated for tele-alarms, dedicated lines, telephone lines, GSM, internet, or satellite.*

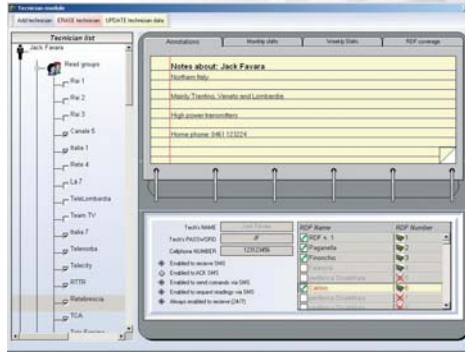
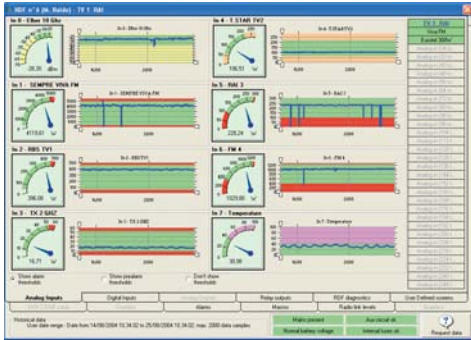
*The system is fully modular and flexible and permits the re-configuration of the entire network or of a part of it by any of the units installed or by a mobile unit.*

*Sophisticated software, with intuitive graphic interface, makes it possible to measure the parameters of all the installations in real-time, to control them at a distance, to visualize the historical trend of the measurements and to individually set the thresholds beyond which video or telephone alarms will call pre-set numbers.*

*Data acquisition is possible from any type of electronic equipment and a series of accessories allows the system to be used not only in the broadcasting sector, but also in industrial, civil and military sectors.*



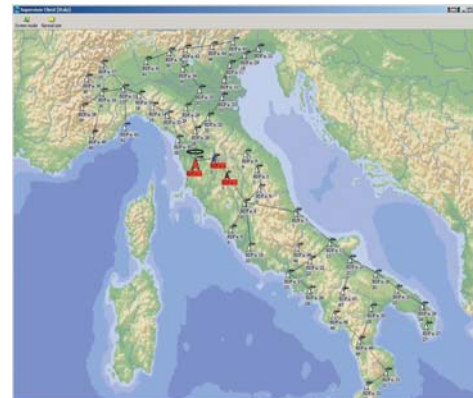
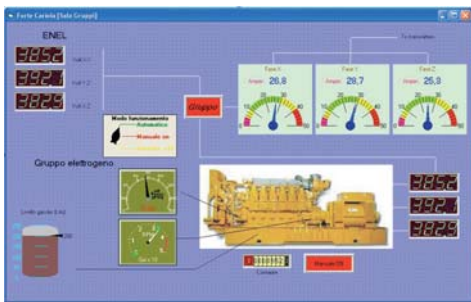
TEMPERATURE SENSOR



ACTUATORS



DETAIL OF RF VERSION



El sistema de monitoreo y control remoto permite la supervisión y gestión en tiempo real de toda clase de aparatos de cualquier marca. Grupos electrónicos, baterías, puertas de entrada de las posiciones, niveles de los líquidos; todo ello desde una o varias estaciones centrales fijas y móviles. La dimensión de la red de control remoto no tiene límites y puede configurarse para gestionar un aparato nada más, o un centro de telecomunicaciones, hasta llegar a llevar a redes nacionales completas. Las unidades dialogan e intercambian datos entre sí por medio de radio en isofrecuencia utilizando frecuencias dedicadas para telealarmas, o mediante líneas dedicadas, por línea telefónica, GSM, internet o satélite. El sistema es, en su totalidad, modular y flexible,

permitiendo reconfigurar toda la red o una parte de la misma desde una de las unidades instaladas o desde una unidad móvil. Un "software" sofisticado, con interfaz gráfica intuitiva, permite medir los parámetros de todos los equipos en tiempo real, controlarlos a distancia, visualizando el historial de mediciones y estableciendo individualmente los umbrales que, una vez superados, harán intervenir las señales de alarma a vídeo o de teléfono a números establecidos previamente. Es posible conseguir datos desde toda clase de aparato electrónico, así como una serie de accesorios que permiten su empleo no solo en el sector de la "radiodifusión", sino también en los sectores industrial, civil y militar.

# REMOTE CONTROL AND MONITORING

## TECHNICAL CHARACTERISTICS

### SOFTWARE

Operating systems	Windows NT / 2000 / XP
ODBC compatible database	Access, Oracle, SQL Server, Informix
Environment	Multi-user and multi-language
Authentication	Multi-level authentication by use of usernames and passwords
Alarm reporting	Visual, acoustical, pre-recorded messages by phone, SMS, e-mail

### HARDWARE

Input / Output	8 x analog inputs w/ 8 or 10 bit resolution, input voltage: 0 to 5 V DC (Optical isolation available) 8 x optically isolated digital inputs 5mA, w/ selectable polarity 8 x Relay outputs. Max current 1A @ 48V DC 6 x internal inputs for auto diagnostic purposes (battery charger, fuses, mains presence, etc.) 1 x RS485 for equipment intercommunication 2 x RS232 for general purposes or modem connection 1 x RS232 for general purposes or connection to PC (USB 2.0 connection optional) 1 x Ethernet LAN connection 10/100 for PC connection 1 x FFSK (MSK) modulated synchronous output @1200, 2400 or 4800 baud for direct radio connection or audio link over microwave or satellite
Standard capacity of each unit (expandable)	256 x analog inputs (8-10 bit) 256 x digital inputs 256 x relay outputs 32 x analog outputs (8-10-12 bit resolution) 8 x fast counters
Expansion	Rack mounts connected to the unit with optically-isolated RS 485 or optical fibers
Upgrading frames	DAM/D1, 8 digital inputs, 4 relay outputs or one analog output DAM/A1, 8 analog inputs, 4 relay outputs or one analog output
Operating temperature	-20 °C to +55°C
Power supply	115 / 230 V AC 20%, 12V / 36Ah external gel battery kept backup by the unit or internal 12V / 5,7Ah
Maximum relative humidity	95%, non-condensing

### AVAILABLE COMMUNICATION MEDIA

Fixed radio	UHF band, 10W VHF band, 10W 43 MHz band, 4W
Mobile radio	UHF band VHF band 43 MHz band
Modems	PSTN, ISDN, GSM, GPRS, UMTS
Dedicated lines	Fiber optical network, base band modems (4 wires), bi-directional mono audio channels
Ethernet	TCP/IP LAN 10/100

*The above features are standard; however, the equipment can be configured accordingly and as per Customer requirements.*



## Screen Service

SCREEN SERVICE

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*Specifications and characteristics are subject to change without notice.*