



OUR COMPANY

ATECHNA Engineering is a Telemetry, Industrial Automation and SCADA systems specialized company, founded on February 1992 by Gonzalo Barros, at the present Company President.

ATECHNA's success is mainly based on permanent research and product-development efforts and application of state of the art technology to smart solutions.

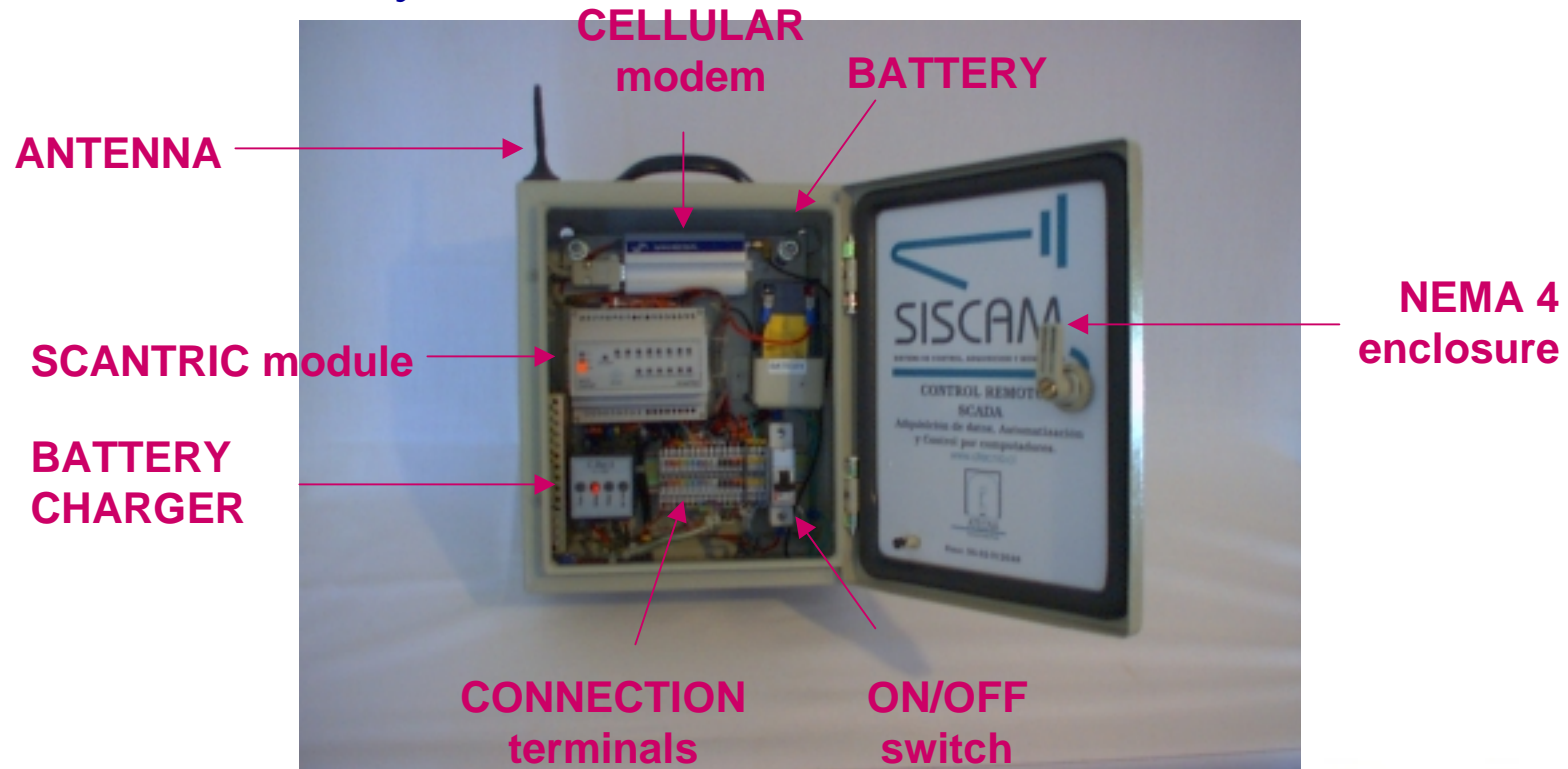
As a system integrator, ATECHNA combines equipment of its own SCANTRIC line with products made by different manufacturers in order to match the customer's needs.





SCANTRIC: REMOTE MONITORING AND COMMAND SYSTEM

ATECHNA presents SCANTRIC, a new telecommand and remote monitoring system. There are no limits for SCANTRIC other than the user's creativity in the field of remote supervision of complex industrial plants and distributed control systems. SCANTRIC also meets the today's high performance demand in the field of surveillance and security.



Over 500 units are working now!



Creativity and innovation are from the beginning part of ATECHNA's philosophy. Technological research efforts are permanently carried out to satisfy increasing Customer's needs for effective automation and system monitoring.

SCANTRIC is a low cost high efficiency solution for remote control, supervision and alarm.

It is particularly useful in extended plants and areas, where costly distributed control networks are required.

SCANTRIC represents a new and easy technological concept in the field of SCADA system communications.

Internet and cellular telephone networks are the platform of this new fast and reliable communication alternative.



Various Communication Media include Cellular SMS and Internet

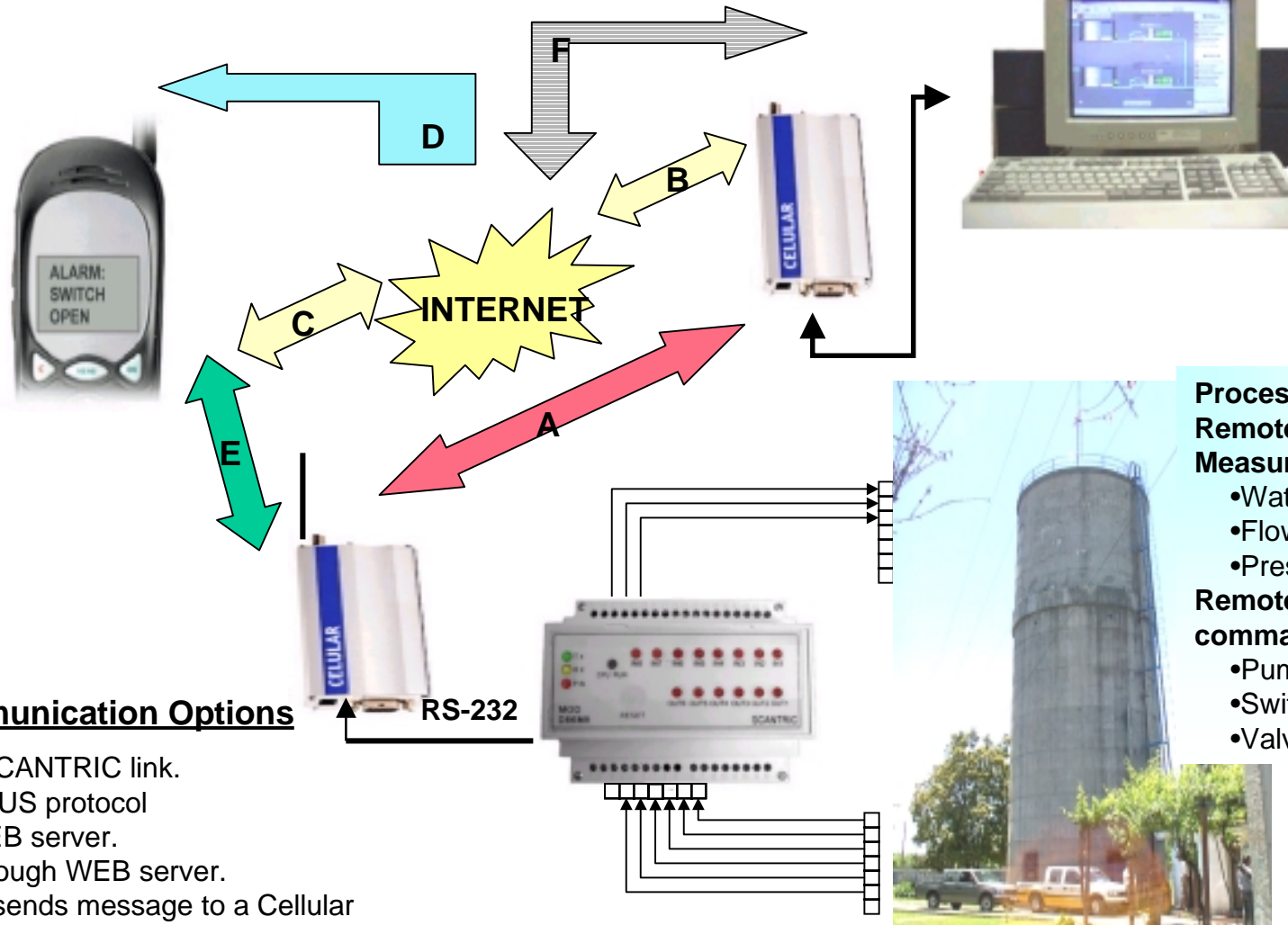
Several transmission media can be used to communicate SCANTRIC units with the Control Center.

SCANTRIC-SMS: employs pre-programmed SMS messages and e-mails. The data is sent to cellular network and then delivered to the user's cell phone and WEB page.

Among other possible transmission media are radio link, satellite and cable



SCANTRIC: Connection modes



Process:
Remote Measurement of
 •Water level
 •Flow
 •Pressure.
Remote command of
 •Pumps
 •Switches.
 •Valves.

Possible Communication Options

- A - Direct PC to SCANTRIC link.
SMS or MODBUS protocol
- B - PC through WEB server.
- C - SCANTRIC through WEB server.
- D - WEB server resends message to a Cellular phone.
- E - Direct Cellular Phone to SCANTRIC message.
- F - Internet to SCANTRIC connection.

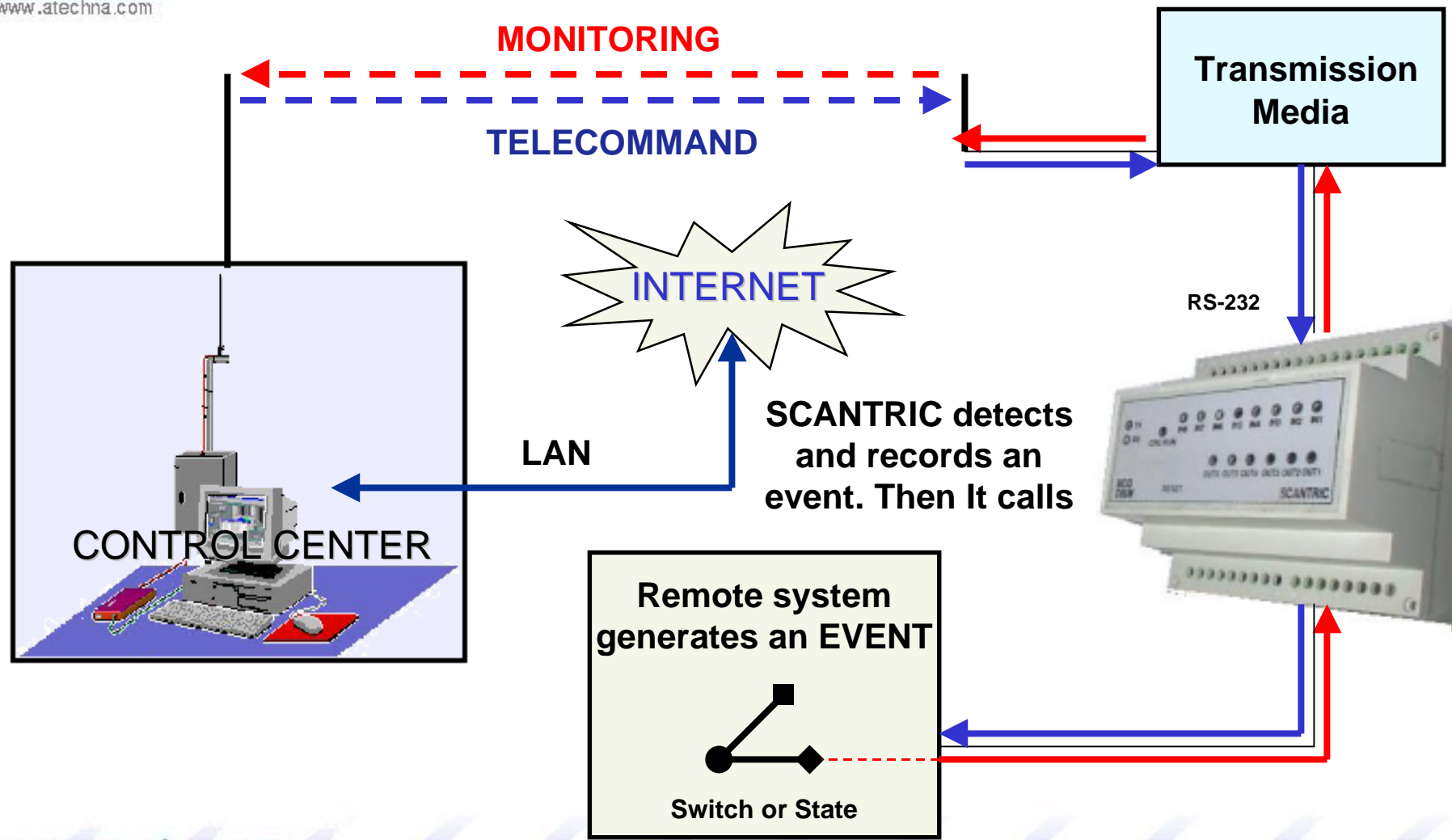
Several possible communication media and protocols.



ATECHNA
www.atechna.com

SCANTRIC TYPICAL TOPOLOGY

Event Message Generation





How does SCANTRIC-SMS work?

Up to 8 signals (contact closure or analog) can be input to the SCANTRIC.

Usually a set of sensors meters physical variables. SCANTIC unit reads the value of such variables and compares them with preset levels. A value in excess over the preset level can trigger an alarm and generate an event. Then the unit codes the event condition employing the Short Message Service (SMS) standard to send a message by the cellular phone network. This is accomplished by means of a cellular modem.

The message is simultaneously transmitted to:

- User's cell phone
- User's e-mail address
- WEB site address.

Alarm conditions can be configured to generate event messages only if the variable exceeds a range for a time lapse greater than a programmed value.

By transmitting programmed messages, the user can send remote commands from a cell phone. This makes possible to open/close switches, start/stop motors, etc. The user can also poll any set of variables in the SCANTRIC-SMS unit.

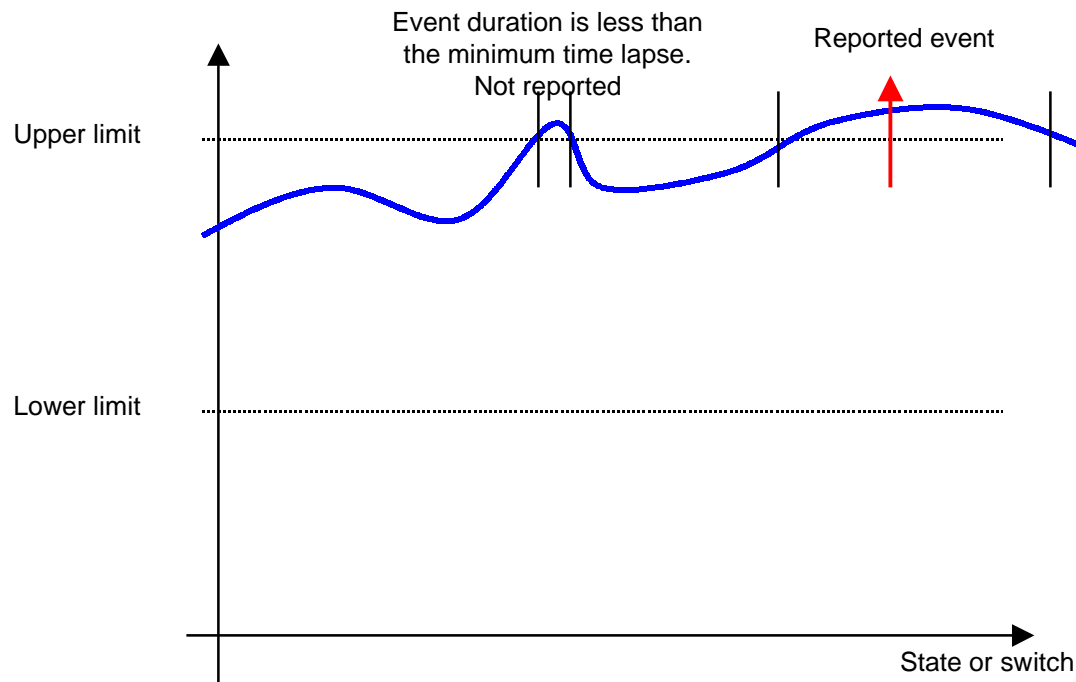
If an alarm message is issued while the user's cell phone is off, the message is automatically received when the phone is turned on, because the cellular network will attempt the transmission until the destination phone is able to receive it.



SCANTRIC SMS Event Generation

Event reports are messages sent by SCANTRIC unit when the measured variables go out of preset ranges during a time lapse greater than a fixed value.

An alarm message is automatically emitted as SMS format to the user's cell phone and e-mailed to user's WEB page.



Event Recording and User Programmable parameter communication:

- Maximum an minimum values .
- Detection times,
- Retransmission number
- Event counters.
- Statistics.
- Data registers.



SCANTRIC

Event detection, recording and report



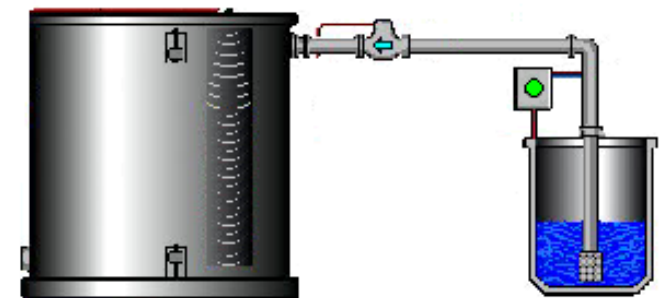
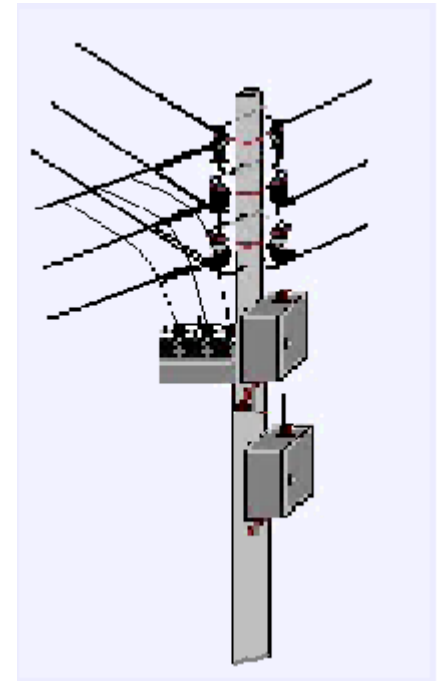
APPLICATIONS

Almost any kind of mechanical, electric, hydraulic, pneumatic, etc. systems, can be remote monitored and commanded by SCANTRIC SMS.

Applications go from building security and surveillance to remote control of industrial plants, mining equipment, water, gas and electric distribution utilities.

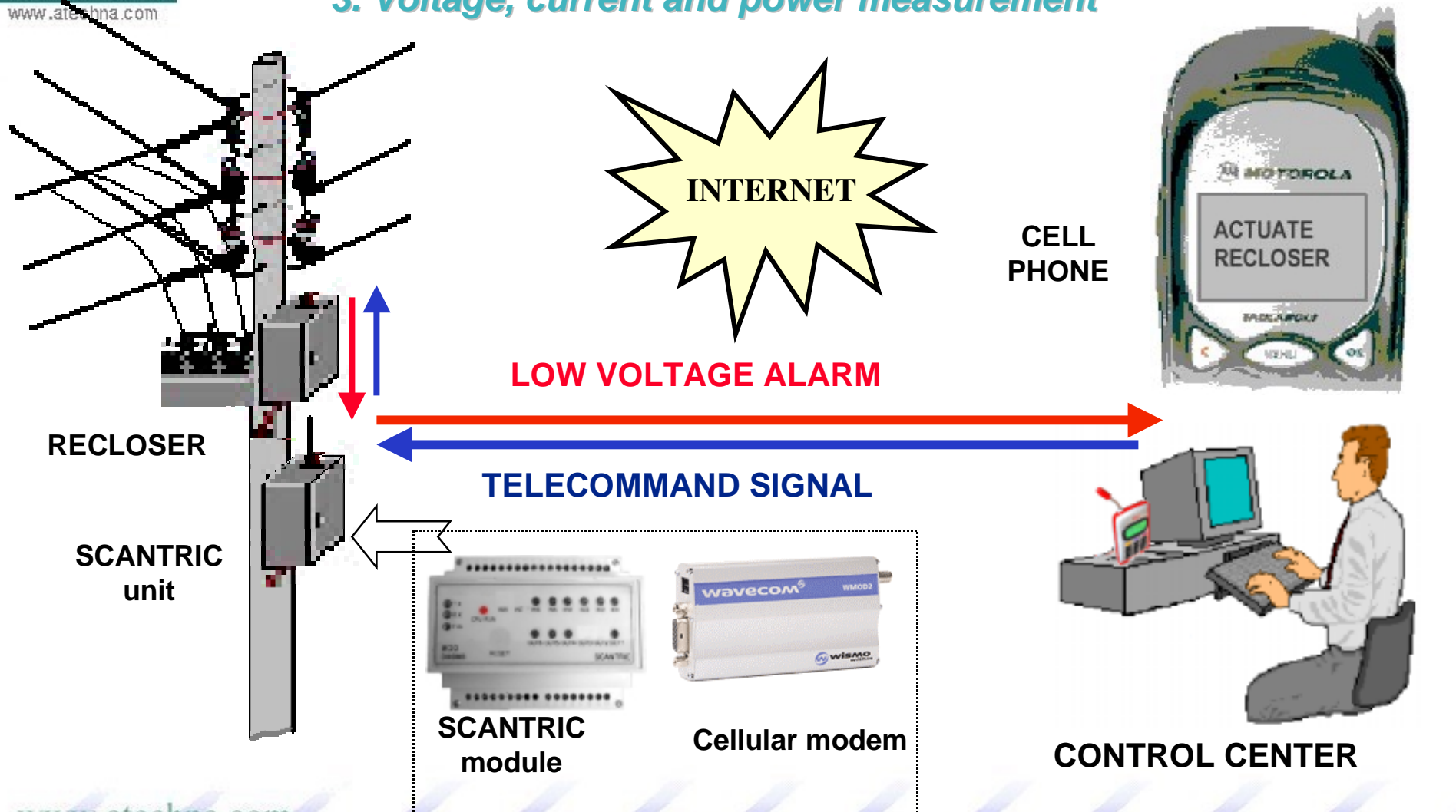
Variables of any kind can be measured and monitored. Digital signals, like a switch closure state, or analog like fluid level, pressure, temperature, flow, voltage, power, pH, etc.

SCANTRIC SMS units are at present installed and working in many companies.



APPLICATION 1: ELECTRIC DISTRIBUTION UTILITY

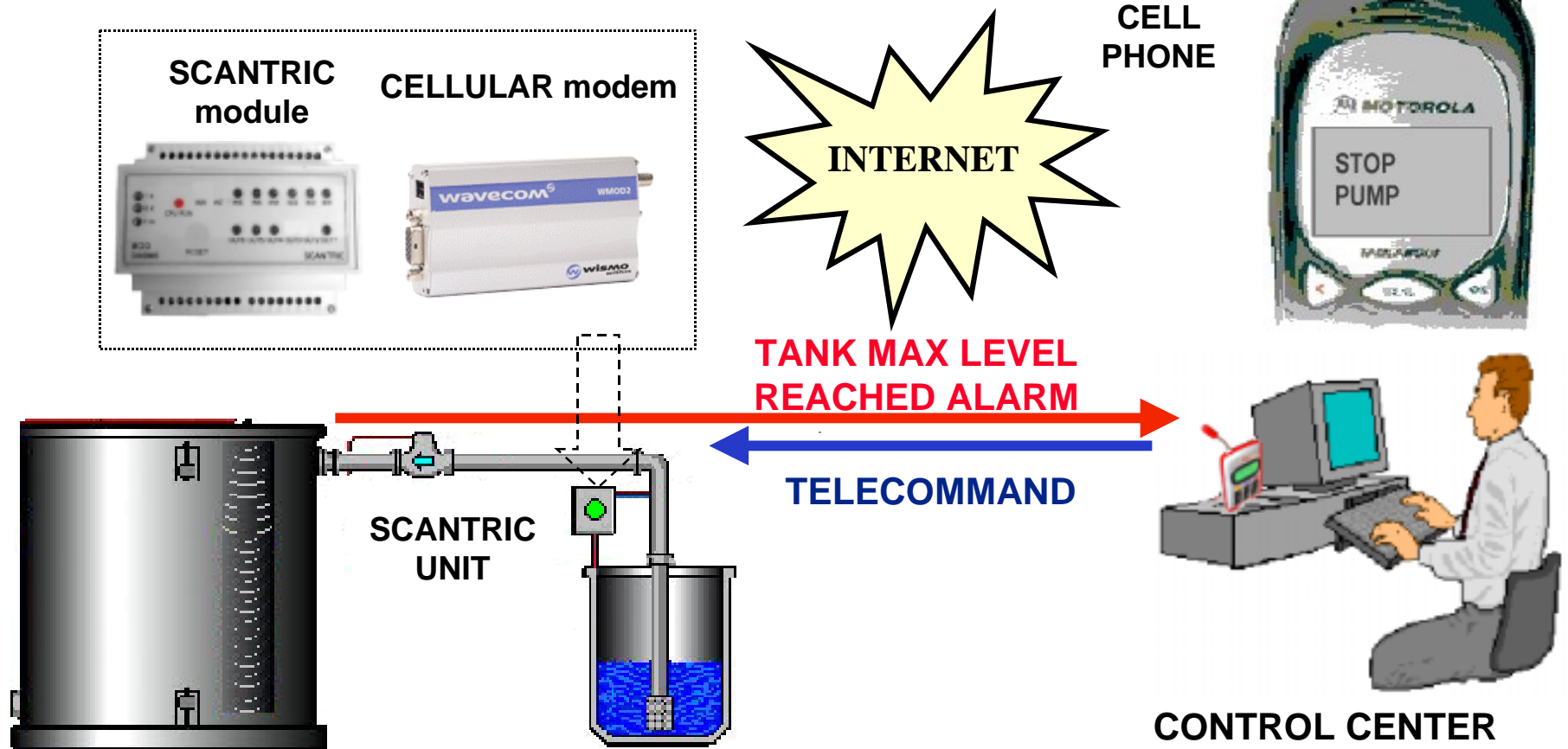
1. Power supply failure detection
2. Remote recloser and switch operation
3. Voltage, current and power measurement





APPLICATION 2: WATER UTILITY

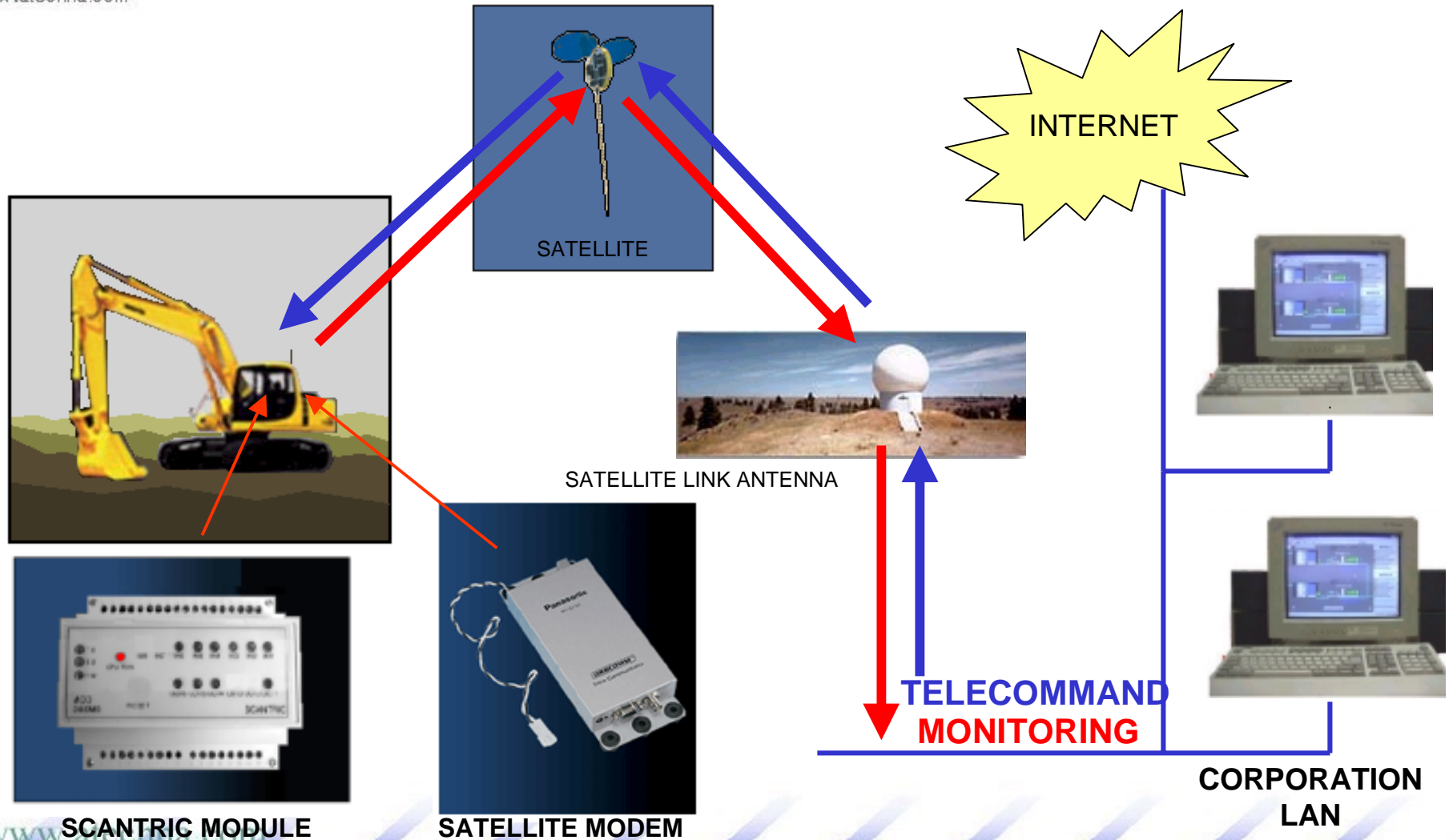
1. Water supply failure detection
2. Remote pump and valve command
3. Level, flow and pressure measurement





APPLICATION 3: Vehicle Monitoring

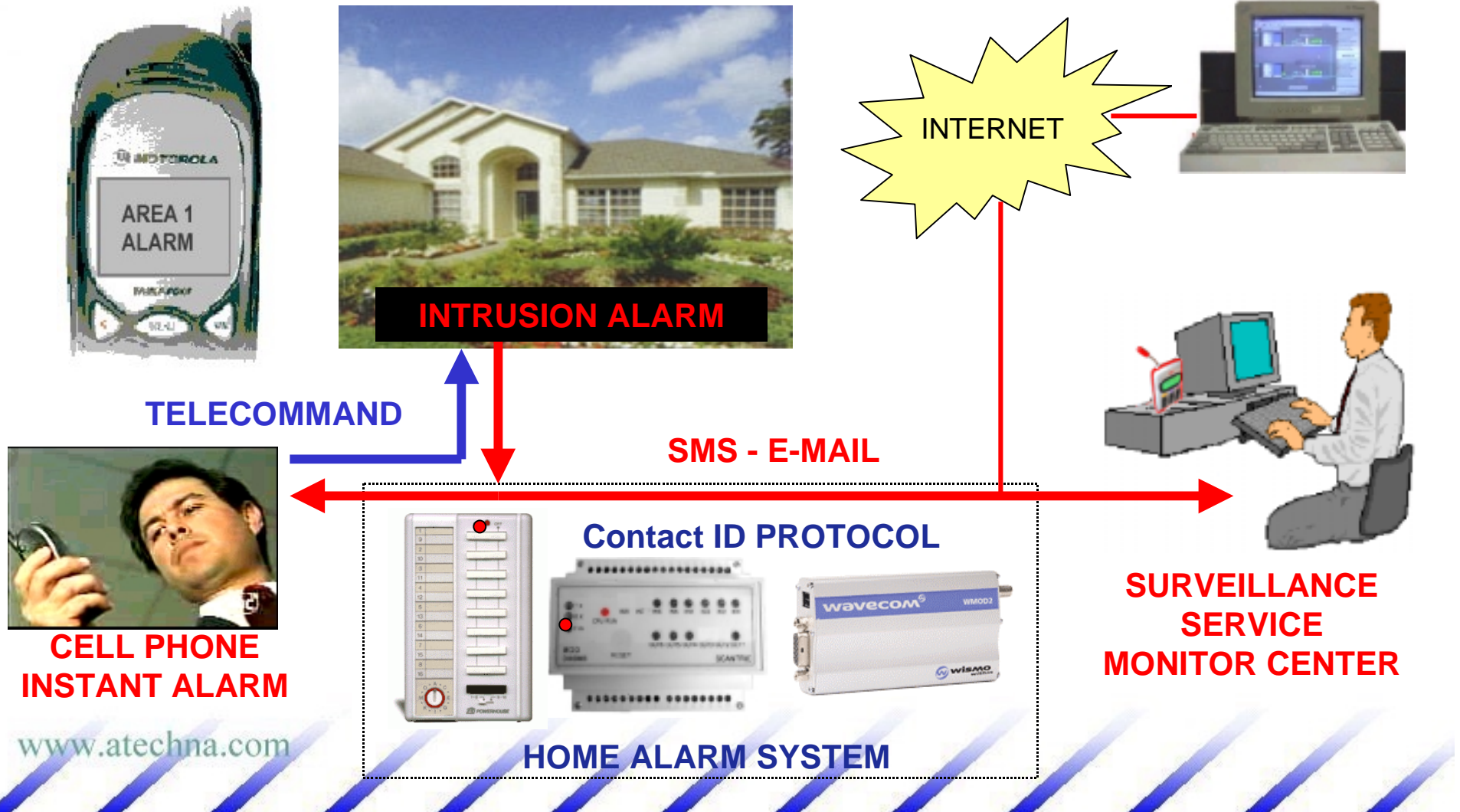
1. *GPS Position Monitoring*
2. *Remote Sensor Telemetry*
3. *Remote Equipment and System Command*





APPLICATION 4: Home

1. Burglar Alarm monitoring in the WEB and Cell Phone
2. Heating, Lighting and Home Appliance Remote Control
3. Fire and Panic Alarm Monitoring





SCANTRIC: Technical Features



- Applications:** *Voltage monitoring in automatic reclosers, gateways, industrial process supervision.*
- Signal Input :** *8 analog/digital inputs (0-20 mA, or de 0-5 VDC). They can be used to measure voltage, current, power factor, etc. Common applications are switch open/close state and event monitoring. Input number can be increased by connecting several units in a network.*
- Command Output:** *6 dry contact.*
- Communication:** *RS-232 port (RS-485 optional). Protocols: MODBUS, AT92, AT command Subset, SMS.*
- Transmission:** *Standard radio transceiver (1200 bps), Radio modem (9600 bps), Switched or leased telephone line, Cellular modem.*
- Enclosure:** *NEMA 4, Pole Mounted.*
- Power Supply** *220 VAC or 12 VDC. 48 hour power backup*



SCANTRIC Advantages



- ◆ ***Instant Alarm and Failure Identification in the Cell Phone***
- ◆ ***Event Alert Messages sent to Cell Phones and WEB pages***
- ◆ ***Remote Control from a Cell Phone or Internet connected PC***
- ◆ ***Failure correction from anywhere***
- ◆ ***Great Price/Performance***
- ◆ ***Event driven Supervision Concept. No Data Saturation.***
- ◆ ***Reliable and safe Operation***
- ◆ ***Better Control to decrease Losses***
- ◆ ***Greater Production Profitability***
- ◆ ***Corporate Image Improvement.***



ATECHNA: Product and Service Summary

We research and develop over Open Platforms

Products:

- ***SISCAM SBC, Standard Industrial Remote Terminal Unit***
- ***SISCAM PLC, PLC based RTU***
- ***SISCAM SCANTRIC, SCADA unit***
- ***SISCAM LonWorks, LonWorks Technology based RTU***
- ***TELESOFT, SCADA monitoring Graphic Software***

Services:

- ***Engineering***
- ***System Integration***
- ***Automated System Installation and Operation Start Up.***
- ***SCADA Preventive Maintenance (SPM)***



SCANTRIC: Our Customers



Over 500 units installed !

CHILECTRA METROPOLITANA S.A:

*SISCAM Remote Terminal Units with Westinghouse 4F communication protocol.
Communication channels are share with several Westinghouse formerly installed RTUs.*

RIO MAIPO S.A:

SISCAM and SCANTRIC RTUs, installed in Primary Substations, Reclosers, Motor Operated Alduties and Remote Voltage Regulators. TelesoftWin Control Center Software.

EMELARI S.A:

SISCAM and SCANTRIC RTUs installed to control and supervise Primary Substations, Reclosers and Break Switches. TelesoftWin Control Center Software.

CHILQUINTA S.A:

SCANTRIC RTUs to monitor Secondary Substations through Telephone lines.



**Do you need help to develop your
automation project?**
Contact us:

We are searching for sale representatives!

ATECHNA :
LAS PATAGUAS 1566
QUILPUE
CHILE
FONO 56-32-912648
FAX: 56-32-926843
E-mail: info@atechna.com
www.atechna.com

ATECHNA' s U.S. Representative :
Alert Technologies
17319 Cypress Spring Dr.
Spring, Texas 77388
Telephone : (281) 528 0201
Fax : (281) 288 6601
e-mail: mtimm@main.com