



## Analyzer Houses for Petroleum Industries

**Modcon Smart Analyzer Houses** are versatile enough to accommodate virtually any combination of required analyzers, sample conditioning systems and analyzer management systems.



Modcon provides complete integrated analyzer systems and all related services from initial engineering through manufacturing, testing and field start-up. Analyzers Systems are normally supplied installed in the special Analyzer Houses including air-conditioning, power distribution, lighting, termination and junction boxes, gas and flame detection, relevant piping and wiring. Process sample probes and sample transport lines designed to ensure representative and rapid sampling, avoiding a possibility of contamination or dead volume. Sample Conditioning systems to provide the sample in a state and condition compatible to the measurement technique used by analyzers. Sample recovery systems, stream selection facilities, telephone modem connections, furniture, special equipment and tools, etc.

The analyzer houses normally have a facility for remote real time monitoring, diagnostics and maintenance via secured industrial network, offering complete remote access solutions through a choice of embedded routers using PSTN, ISDN, GPRS or EDGE technology. The embedded Industrial Security System addresses the important issue of protecting Industrial Networks from modern cyber-security attacks.

One team of specialists manages your project from start to finish. Modcon's staff has extensive experience with virtually every type of process analyzer, as well as with various forms of housings such as stainless steel or fiberglass buildings, galvanized-steel buildings, cabinets and racks. Years of in-plant experience guarantee the best available technology in your system designs.



## Analyzer Houses for Petroleum Industries

Complete Analyzers Systems are normally equipped with the following main facilities:

- ◆ Analyzer Houses including air-conditioning, power distribution, lighting, termination and junction boxes, gas and flame detection, relevant piping and wiring
- ◆ Process sample probes and sample transport lines designed to ensure representative and rapid sampling, avoiding a possibility of contamination or dead volume
- ◆ Sample Conditioning systems to provide the sample in a state and condition compatible to the measurement technique used by analyzers
- ◆ Sample recovery systems, stream selection facilities, telephone modem connections, furniture, special equipment and tools, etc.



The electrical classification and safety of analyzer shelters, process instrumentation and interface equipment is a subject of great importance, since the most of petrochemical process locations has been determined as a hazardous area. The choice of proper equipment and protection methods initially involves determination of the nature of the hazards at the location. Modcon applies all available methods of protection, such as intrinsic safe, flameproof, pressurization, encapsulation, increased safety, powder filling, oil immersion, etc.

Modcon has an excellent facility specifically designed for performing integrated systems assembly and testing. Technical staff has a thorough knowledge of the National Electrical Code, purging requirements and all necessary aspects of packaging.

Modcon will assume total systems responsibility, so you can obtain all project requirements from a single source. This provides a single channel for communicating and interfacing, and it helps achieve consistent design, assembly, and component selection.



**MODCON SYSTEMS LTD.**

*Leaders in Analysis, Measurement and Automation*

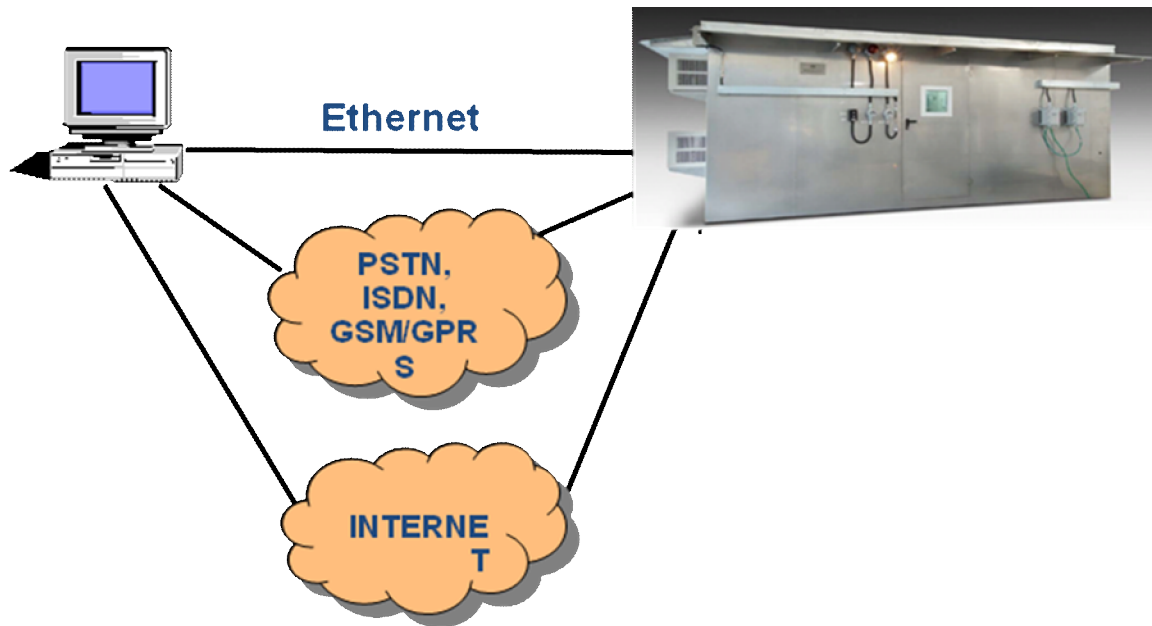


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# Remote real-time monitoring and diagnostics



## Remote access options includes:

- ✓ GPRS Industrial Router
- ✓ VPN GPRS Industrial Router
- ✓ Dial-up Routers
- ✓ VPN Broadband router
- ✓ ADSL Router

## The communication is provided:

- ✓ Through any Web Browser
- ✓ Internet Explorer
- ✓ Netscape
- ✓ With a Connection: by Ethernet, by Modem and/or by Internet

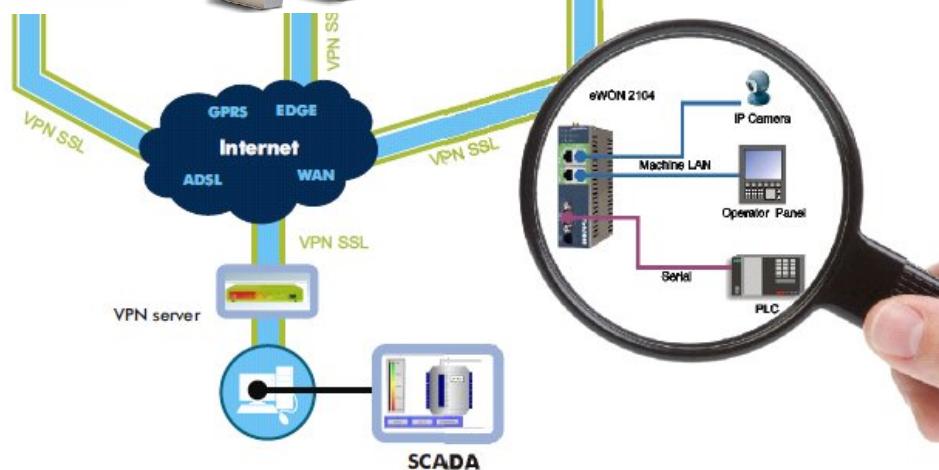
Remote Site 1



Remote Site 2



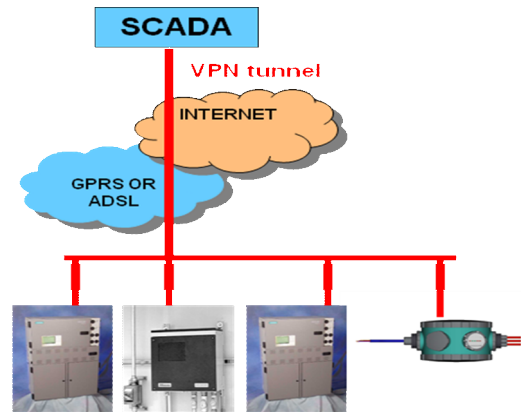
Remote Site n



# Remote real-time monitoring and diagnostics

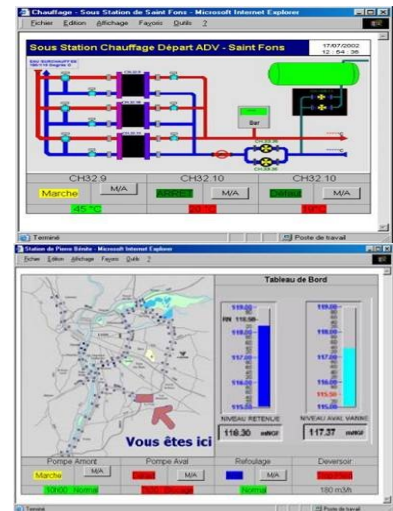
## Industrial Extranet

- Connect all Analyzers and Devices into a Virtual Private Network, secured with SSL technology (128 bits)
- A VPN server manages all VPN tunnel requests and communication initiate and maintain VPN tunnel.
- Allows to monitor remotely every Analyzer or Device individually.
- Allows site-to-site communication
- Avoid multiple modems infrastructure on the server side.

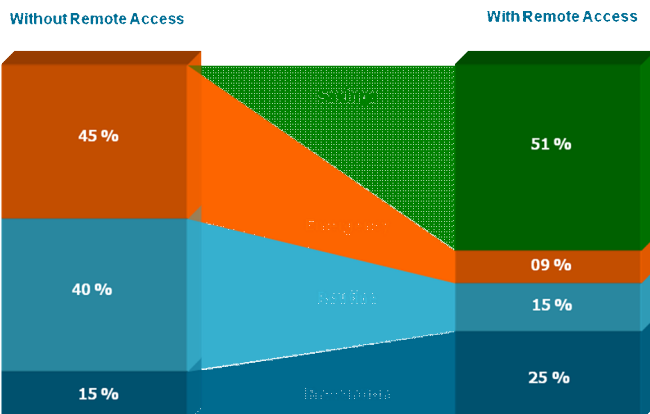


## Remote Management

- Provide Remote Management features to majors Analyzers including Datalogging, Alarms, Web SCADA
- Optional VPN connectivity
- Allow Machine Remote Maintenance
- Full TCP/IP architecture
- To design dynamic HMI pages easily
- No Web skills needed
- To provide a pure graphical environment with: Intuitive menus, Animations, Object libraries
- When completed, webHMI computes the HTML code and uploads into the Analyzer House Communication Module



## Remote Access Benefits



Source: Gartner DataQuest

- ✓ DataLogging features up to 130.000 pts.
- ✓ Data retrieval by FTP put or eMail attachment.
- ✓ ZIP Data Compression to optimize data transfer.
- ✓ Optional VPN features.
- ✓ Alarms Management with notification by SMS, email or FTP
- ✓ Optional VPN connectivity
- ✓ Provide Remote Management features to majors Analyzers including Datalogging, Alarms, Web SCADA
- ✓ Allow Machine Remote Maintenance through Full TCP/IP architecture



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