The oil and gas industry constantly seeks cost-effective methods of gathering and controlling the production process. Honeywell has added a low cost, energy efficient compact device to its control system offerings, a remote terminal unit (RTU) called RC500, to meet this need. The RC500 is appropriate for applications in upstream production, pipelines and city gas distribution where small amounts of information are required at numerous locations.

The cost of oil and gas projects continues to escalate as proven reserves continue to decline. Greater competition for dwindling reserves reduces capital equipment and operational equipment funds. Thus the oil and gas industry seeks cost-effective technology for areas where production margins are tight.

Honeywell offers solutions that empower oil and gas operators to increase throughput while reducing costs. RC500 is part of Honeywell’s investment in intelligent instruments, asset management, online optimization and wireless applications which enable end-users to make the best use of operating assets. RC500 easily integrates into Honeywell’s larger control systems, for example bringing remote well heads, pipeline block valve stations, river crossing stations, and metering stations into the larger automation systems at production centers, natural gas plants, compressor facilities and Liquefied Natural Gas (LNG) liquefaction plants.

**Remote Controller Integration**

Honeywell’s RC500 Remote Controller provides a cost-effective solution while going beyond normal RTU functions. Traditional RTUs collect and pass on the gathered information. RC500 has been designed to support smart technologies in the field, seamlessly integrate data into larger control systems and exchange information and control into production enhancing optimization layers.

When combined with powerful Experion® SCADA technology, RC500 provides an integrated solution for complex remote automation and control needs in oil and gas applications. RC500 integrates into Experion using industry standard protocols such as Modbus and DNP3. This seamless RTU integration with Experion meets critical and complex automation needs and provides a path to the latest technology that the Experion platform offers.

At the field level, instruments, field devices and other forms of inputs/output are easily handled by the RC500 RTU. Flexibility in field device and input/output expansion is handled with Ethernet I/O options to suit your needs.
Applications
The RC500 is a versatile and powerful controller capable of broad application across different oil and gas installations. When combined with feature-rich Experion SCADA products, it provides an unmatched and tightly integrated SCADA system. The RC500 is suited for many oil and gas applications.

Data Concentrator and Communications Integration
Multiple communication ports, including Ethernet, RS232, RS485 and industry standard protocols, make the RC500 a versatile communications platform and data concentrator. Access to well-timed, accurate and critical information from oil and gas fixed assets such as wells, pipelines and compressor stations can tremendously improve oil and gas operations, resulting in improved productivity and investment protection.

Well Head Controller
The RC500 is a low power, energy efficient device, easily powered by solar panels. When combined with its versatile I/O capability, serial interfaces, PID controls, small footprint and wireless connectivity, the RC500 is an excellent remote controller for automation and flow measurement at a well head.

Pump and Compressor Station Controls
The RC500 is well suited for skid mounted equipment control. The flexible and modular RC500 solutions enable it to be part of a skid mounted controller for pump and compressor monitoring and control. The RC500 easily handles the start/stop sequences, pipeline pressure and flow control while passing on information to the SCADA system.

Gas Flow Metering
The addition of remote time synchronization, AGA flow computing functions totalizers, high speed pulse inputs and high level interfaces makes the RC500 suitable for gas metering applications in addition to local site control. The RC500 reliably transmits to the central host a range of measurements and data.

Block Valve Automation
The RC500 is ideal for pipeline valve automation. Its variety of I/O options enables easy interface to pressure, temperature and flow instruments and discreet signals. The RC500’s low cost and energy efficiency is ideal for simple block valve and actuator status monitoring block valve control. When combined with Honeywell’s wireless valve transmitters, it offers extremely cost-effective valve station monitoring, eliminating the high cost of cables, cable trays and associated power supplies.

City Gas Stations
The RC500 has all features typically required for city gas applications such as pressure reduction stations, storage stations, gate stations and metering stations.

More Information
For more information on RC500, visit www.honeywell.com/ps or contact your Honeywell account manager.

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