

CONTROLEDGE™ RTU PROCESS CONTROLLER

Honeywell's ControlEdge RTU improves field asset control through simplified and efficient remote monitoring, diagnostics, and management.



Today's process industry operations are faced with converting "Big Data" from complex automation systems into relevant, actionable information. There are also an increased number of assets and data to manage. Operating companies must find ways to improve capacity management, accounting, and asset integrity to maximize throughput. Distributed operations including wellheads, pipelines, storage terminals, and mining can benefit from smarter automation.

CHALLENGES IN REMOTE OPERATING ENVIRONMENTS

A process controller should provide efficient monitoring, diagnostics and asset management for distributed assets. Honeywell's ControlEdge™ Remote Terminal Unit (RTU) can help you to:

- Simplify configuration and commissioning over thousands of assets.
- Bring projects online faster and with less risk.
- Improve measurement and control based on industry standards.
- Gain insights into the performance of large distributed operations.
- Enhance operational efficiency across the enterprise.
- Minimize monitoring and diagnostic time for remote equipment.
- Minimize travel to the field for troubleshooting and maintenance.
- Reduce overall ownership costs for field equipment.

A NEW BREED OF PROCESS CONTROLLER

Honeywell's ControlEdge RTU is a modular, powerful and scalable process controller. When combined with the streamlined configuration and operator experience of Experion®, Experion SCADA, or Experion Elevate (SCADA as a service via a cloud infrastructure), it meets the most demanding automation and control requirements. Operators can make sense of data with a single system including flow and quality calculations, line pack and leak detection information, and compressor maps. In addition, the RTU includes redundancy features to improve availability; it is designed for harsh environments; and it allows safe remote monitoring, diagnosis, and management for reduced travel to the field.



EFFICIENT MANAGEMENT OF GEOGRAPHICALLY DISTRIBUTED EQUIPMENT

Optimal production and productivity is hard enough to achieve on a single asset level, much less in large geographically distributed operations. Industry experience has shown the most effective ways to improve productivity are through effective remote asset management, a powerful user interface, and efficient scalability. ControlEdge RTU helps you achieve this with the following steps:



Implement Robust Asset Diagnostics and Monitoring

New developments in RTU technology have resulted in a shift from basic data collection and local control, to smart and flexible data management that can significantly increase operational efficiency, improve reliability, lower maintenance costs, and reduce operator trips to the field.

A centralized asset management system uses smart device instrumentation to save considerable time in configuration, maintenance, troubleshooting, and diagnosing field devices. Using well-equipped ControlEdge RTUs/process controllers, you can reduce equipment monitoring and diagnostic time from hours to minutes.

Utilize Flexible SCADA Templates for Asset Engineering

Honeywell's latest SCADA systems employ standardized "Equipment Templates," which radically simplify configuration and operational efficiency across assets. Users can configure a system by adding a single piece of equipment requiring just a few details instead of separately building many points and operator displays. This reduces asset engineering time by up to 80%.

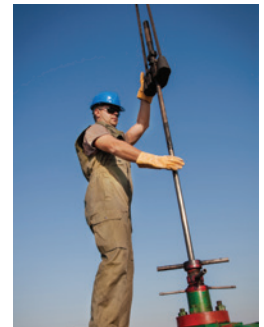
Our latest advancements improve productivity and save time:

- Equipment templates include all related SCADA configurations by category.
- A dashboard-style interface auto-generates content from template information.
- Tabular displays show key parameters for similar pieces of equipment.

Optimize Management of Increasing Field Equipment

Honeywell's SCADA solutions have evolved to offer much greater scalability. As equipment increases across growing operations, input/output (I/O) modules can be added to manage the extra equipment and performance data. The RTU's modern and modular design makes it easy to add equipment.

Modern SCADA solutions also provide Electronic Flow Metering (EFM) within the RTU itself—a more efficient approach when dealing with a large number of distributed assets.



Best-in-Class Features

- Built-in, HART-enabled I/O eliminates costly I/O modules and third-party hardware.
- Natively redundant controller increases availability.
- Wireless I/O integrates ISA100 instruments without additional communication equipment.
- Remote maintenance of instruments greatly reduces travel to the field.
- Designed for operation in harsh environments from -40 to 75° C.
- Removable and plug-in terminal blocks simplify wiring and cabinet assembly.
- Integration with Honeywell's Field Device Manager (FDM) through HART-IP enhances diagnostics.
- Built-in EFM capability with API 21.1 and 21.2 compliance.
- Flow calculations independently validated against AER Directive 17.

