

Remote Terminal Unit

Remote data monitoring is required in many industries including oil and gas, power, water / waste treatment and mining. In these applications, RTUs or remote terminal units, are an efficient way of collecting and transmitting data to the central control system. GTH has designed many applications involving RTUs.

Honeywell RTU2020

The Honeywell **RTU2020 Remote Terminal Unit (RTU)** is a powerful, modular and scalable controller capable of all remote automation and control applications. The RTU2020 is designed to withstand harsh environments and for easy deployment at remote sites. It also allows remote maintenance, thereby reducing the need to travel to the field.

This solution offers a unique combination of capabilities such as:

- Low power consumption, making it ideal for operation on solar power
- Removable and plug-in terminal blocks, simplifying wiring and reducing time for cabinet assembly
- Built-in HART I/O with Field Device Manager integration
- RTU Builder, RTU2020's integrated tool for designing, configuring, programming and maintaining the unit*

*Compliant with IEC 61131-3 and supports languages such as Ladder Diagram (LD), Function Block Diagram (FBD), Structured Text (ST) and Sequential Function Chart (SFC).

RTU2020 offers flexible communication, thereby allowing deployment in a wide variety of existing or new network types.



RTU Case Study

GTH was recently contracted to modernize the water system at an Indian Reservation in Nevada. They were looking for a solution that would not only provide data collection, but also insure continued reliability and support. Our engineering team in Reno, NV designed a system utilizing level transmitters with a solar-powered Phoenix Contact RTU that transmitted a signal via radio to activate the pump to refill the tank. The end result was a low-maintenance and reliable solution for the customer. [Click here](#) to read the full case study.

Contact the *GTH sales and technical team* today for assistance selecting and integrating these devices.



Can I use a PLC for my remote monitoring application?

While PLCs offer significant plant-floor functionality, RTUs are better suited for remote applications. Their enclosures are designed to protect against humidity and temperature extremes that are common in remote areas. Plus, RTUs are rated for vibration and have a lower power draw, allowing them to operate on battery or solar power. RTUs also offer enhanced communications capabilities which allow for data logging and history backfill. This means users can locally store critical data during a communication outage or a period of low bandwidth, for recovery at a later time.

Contact the GTH branch near you today for more information!