



The standard, built-in OPC UA server communicates natively over standard internet protocols. This allows human-machine interface (HMI) applications to read data from the 9810 miniRTU. The 9810 miniRTU is also compatible with a wide range of systems, including legacy Varec systems, using RS-232 and RS-485 standards.



The 9810 miniRTU combines with FuelsManager to provide a cost-efficient and reliable tank inventory system that is compatible with a variety of other host systems through industry standard Modbus protocol.

9810 mini Remote Terminal Unit (RTU)

Collect and transmit data from up to 32 tanks

Next Generation Communications Device

The 9810 mini Remote Terminal Unit (miniRTU) is a member of Varec's comprehensive range of industrial communication interfaces, building on the proven reliability of the 8300 TGI (Tank Gauge Interface) and 8810 RTU. Its compact design allows for easy placement in the same space as an existing 8300 TGI. The 9810 miniRTU is a cost-efficient single field protocol option to the 8810 RTU.

Key Features

- Ethernet-ready, provides high-speed, real-time communication capabilities
- Industry standard Ethernet supports OPC UA, Modbus TCP, and Modbus over TCP
- Modbus for host or field integration
- Supports multiple communication ports and protocols
- Scans for level, temperature, and status information
- Compact form factor
- Designed for small-to-medium tank farms
- Fully compatible with FuelsManager®
- Supports up to 32 tanks with volume calculations
- Integrates with legacy tank gauging interfaces (Serial, Bi-Phase Mark, Mark/Space, Tankway)
- Supports legacy serial-based configuration application
- Supports remote file transfer
- US, Canada, IECCE, and CE approvals
- Built-in surge protection

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The following versions of the 9810 miniRTU are available as options: **Serial, GPU Bi-Phase Mark, Mark/Space, and Tankway**. All versions of the 9810 miniRTU have four common communication channels. Channel 1 uses either a USB Type B or RS-232 connector for serial communication. Channel 2 uses an Ethernet connector for TCP/IP communications. Channel 3 uses an RS-232 connector for serial communication. Channel 4 uses either a RS-232 or RS-485 connector for serial communication. Each channel includes an LED indicator to denote status.

All versions of the 9810 miniRTU support the following data protocols:

- Ethernet (OPC UA & Modbus TCP)
- RTU Slave (for ViewRTU)
- Modbus Master and Slave
- TLS (Veeder-Root)
- Enraf (GPU & FlexConn)
- HLS (Hectroic Optilevel)
- Debug communications
- Honeywell Engauge

Serial Module:

- Provides up to three RS-485 connectors or up to two RS-232 connectors for serial communications
- Supports RTU protocol for legacy FuelsManager systems

GPU Bi-Phase Mark Module:

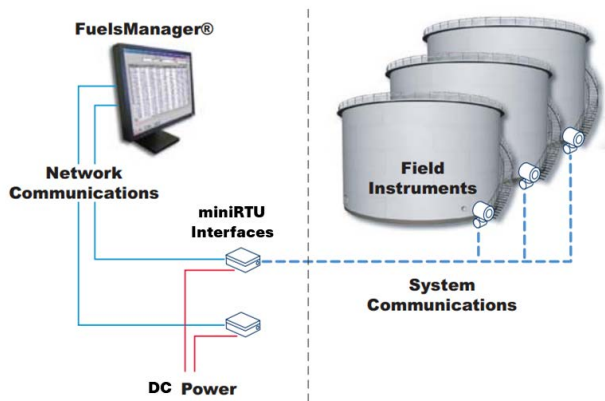
- Provides two BPM channels, each with two connectors for field termination
- Supports Honeywell Enraf GPU Bi-Phase Mark loops

Mark/Space Module:

- Provides one Mark/Space channel with two connectors for field termination
- Integrates to multiple Varec transmitters, and third-party manufacturer Mark/Space transmitters

Tankway Module:

- Provides one Tankway channel with two connectors for field termination
- Supports L&J Tankway tank gauge transmitters



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