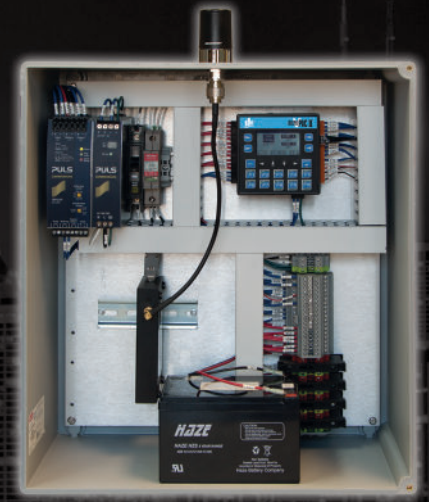# HRC1000

CONTROL/RTU/CTU

OVERVIEW

The HRC1000 is a feature-rich device that can provide control and/or monitoring to your water and wastewater infrastructure. It combines the finest equipment and workmanship in the industry, with standard application solutions, flexible multiple I/O configurations and multiple communication and telemetry options.

The HRC1000 can be placed in new installations or be used to retrofit/upgrade exisiting stations by adding open-architecture PLC-based control and/or remote monitoring with traditional telemetry and/or icontrol® cloud-based SCADA solutions.

FEATURES

Easy to Install and Use
- Micro-VPAC II Open-Architecture PLC
  - Graphical User Interface
  - 12 Digital Inputs; 6 Digital Outputs
  - 4 Analog Inputs
  - Multi-Level Password Protection for Security
- Battery Backup
- Built-in 120VAC Surge Protection
- All Field Wiring to Terminal Blocks
- UL Type NEMA 4X Non-metallic Enclosure
- Padlock-able Hasp
- Serialized UL-Label and O&M Manual

- Standard or Custom Applications
  - Level Control
  - Constant Speed Pumping
  - Variable Speed Pumping
  - Remote Tanks

Telemetry Options
- Fiber Optic
- Leased Lines
- VHF Radio; UHF Radio
- Spread Spectrum
- Cellular
- Satellite

SCADA Options
- Modbus Master/Slave
- Wonderware
- iFix
- VTScada
- icontrol® cloud-based SCADA

WATER SYSTEM INTEGRATOR AND CONTROLS PROVIDER

MONITORING AND CONTROL APPLICATION EXAMPLES

icontrol ®
solutions

Monitor
- Pump Running
- Hand-Off-Auto
- Pump Seal Failure, Overtemp and Overload
- Fault (VFD)
- High and Low Level Float
- Power and Phase Failure
- Generator Running
- Station Intrusion
- Dry Well Flood, Rain Total, Flow Pulse
- Station Temperature (discrete or analog)
- Wet Well, Clear Well or Tank Levels
- Station Flow, via Analog or Volumetric Flow
- VFD Speed
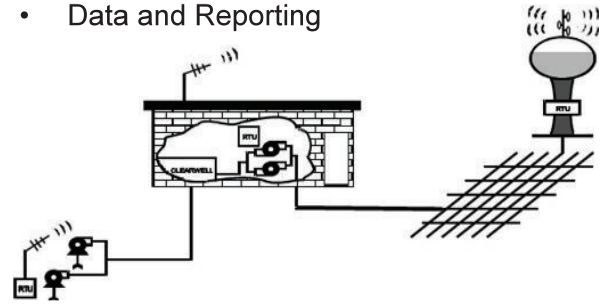- Pump Current
- Discharge Pressure

Control
- Pump Calls
- Fault and Backup Reset
- Alarm Horn Silence
- VFD Speed

Alarms and Events
- Pump Seal, Pump Overtemp, Overload
- Control Power Failure
- VFD and Soft Starter Fault
- Pump Failure
- Backup Active
- High and Low Level
- Generator Running
- Phase Failure
- Station Intrusion
- Dry Flood
- Temperature High/Low
- Communications Failure
- High Motor Current
- Discharge Pressure

- Secure, Remote Access from any Computer
- Dynamic Process Graphics
- Status and Trends Screens
- Setpoint and Equipment Control
- Alarm Management
- Data and Reporting

PRIMEX ®
WATER SYSTEM INTEGRATOR AND CONTROLS PROVIDER