Remote Terminal Unit (RTU)
Model Number: 12113
(With Backup Float Switch Pump Control)

Description:
The Remote Terminal Unit (RTU) is a data collection device designed for monitoring and control of remote stations. It is primarily intended for use in both water and wastewater collection and distribution SCADA systems. The RTU also performs the function of a backup pump controller by using two float switches in the event of primary equipment failure that may cause emergency levels to occur. During normal operation the RTU collects data and sends it to a central monitoring station using a variety of Modbus ASCII based communication devices such as telephone modems or radios. This allows the user to remotely control and configure the RTU from a base station or a workstation. There are two serial ports available on the RTU. One is dedicated for communications while the other can be used to either communicate with a variety of DCC pump controllers or RTUs to provide easy expansion of the remote station.

Specifications:
- **Input Power:**
  - 11 VDC to 16 VDC, 1 A max.
- **Operating Temperature Range:**
  - -30°C to +60°C (-22°F to +140°F)
- **Inputs (optically isolated):**
  - Low Voltage - 12 VDC or VAC +50% or -5%
  - High Voltage - 115 VDC or VAC ± 20%
  - Isolation - 2500 Vrms
  - 4 - Pump Running
  - 1 - Phase Monitor
  - 1 - Intrusion Alarm or Power Generator Transfer
  - 1 - High Alarm Float Switch
  - 1 - Off Float Switch
- **Inputs (non-isolated):**
  - 1 - Rain Gauge
  - 1 - Station in Service
  - 1 - Battery Failure
  - 1 - Line Power Failure
- **Relay Outputs:**
  - 4 - Pumps 1-4, SPST Form A - 10 A at 125 VAC
  - 1 - On Float Backup, SPDT Form C - 10 A at 125 VAC
- **Transient Protection:**
  - Metal Oxide Varistor
- **Interconnect:**
  - Pluggable terminal blocks (screw type)
  - 2 - DE-9 connectors for RS-232 Bus
- **Communications Protocol:**
  - Modbus ASCII
- **External Dimensions:**
  - 8.30”H x 5.45”W x 1.55”D