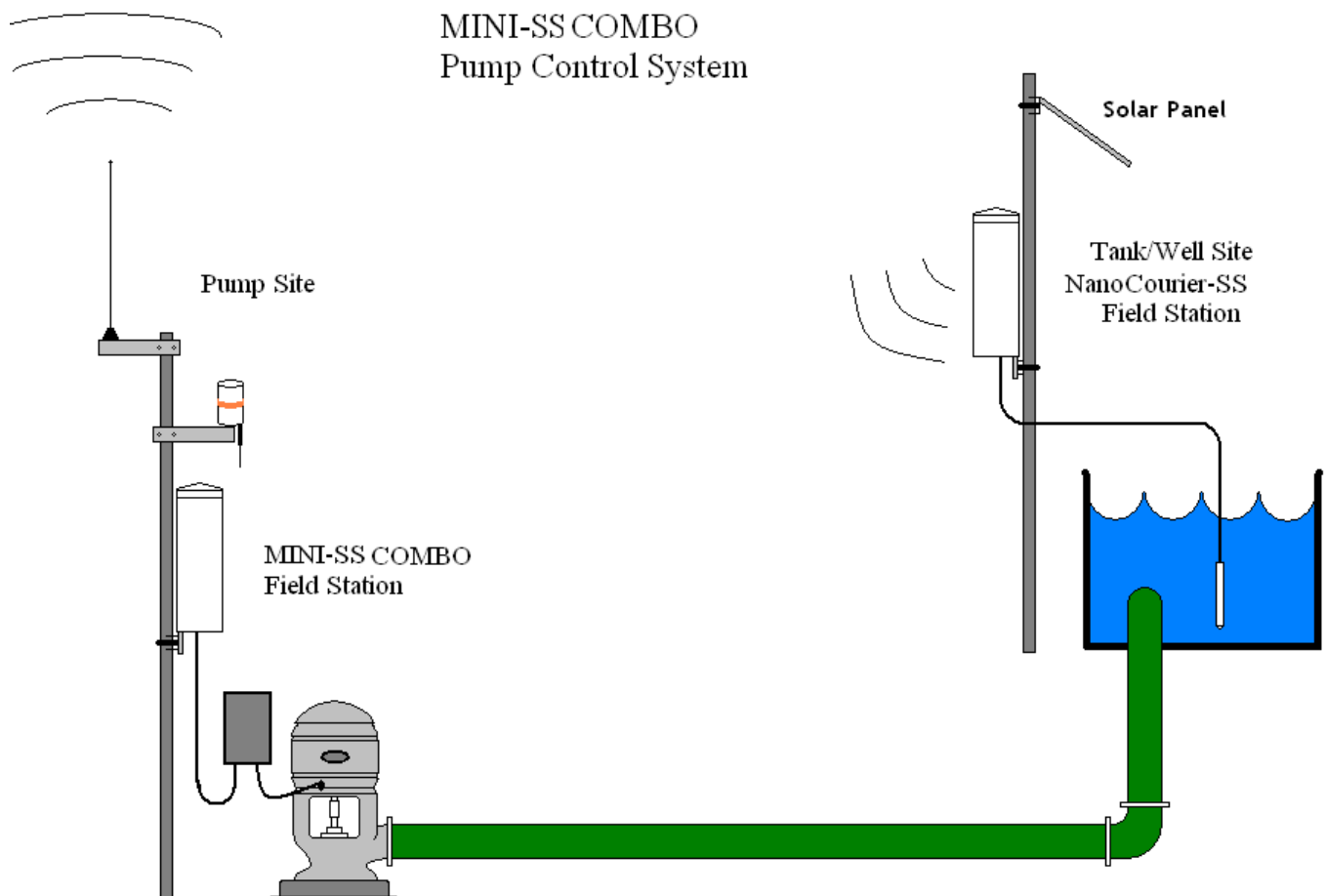


Pump Control Using the Remote Loop Feature of the MINI-SS COMBO

Automata is offering a new method of monitoring and controlling a pump for filling a remote tank/well. The system is ideal for use in situations where the tank and/or well site(s) are difficult to access. The equipment operates autonomously but transmits the tank level and pump status information via satellite to your computer. Tank level is monitored by either a submersible level sensor or a float. The level information is transmitted to the pump site by spread spectrum radio (typical range up to 2 miles, line of sight). The MINI-SS COMBO at the pump site compares the level information to pre-programmed set points to determine when to operate the pump. In this way the tank can be filled automatically, while the operator can check the status of the system at any time by logging on to a web site where the tank level information is displayed.



Description

This Pump Control System allows the user to remotely monitor a water level over the Internet. The quoted station below does not have repeater capability. If repeater capability is needed, contact Automata for details. This system can be expanded to monitor the flow rate, total flow and salinity of the water being pumped.

Pump Site	
MINI-SS COMBO Field Station 630-6044-100	Field Station with satellite and spread spectrum radio capabilities. Includes: 4 analog input channels, 2 control outputs, radios, antennas, and battery mounted in a standard post chassis.
AC Charger 630-0502-000	Output, 1.7A @ 13.8 VDC. Power cord not included.
Relay 629-0500-101	10 Amp, 240 VAC Solid State Relay.
Tank Site	
NanoCourier-SS Field Station P/N: 630-6010-002	Field Station with spread spectrum radio telemetry capabilities. Includes: 2 analog input channels, 2 control outputs, 2dB omni antenna, and battery mounted in a standard post chassis.
LEVEL-WATCH P/N: 630-2014-005	5 psi, 11.5' range water level sensor with 20' of vented cable and Desi-Replacement.
SOLAR PANEL P/N: 630-5000-006	Solar Panel, 600mA, 12V, 8' of cable.
Subscription Fees	
COMMUNICATION 640-6030-XXX	Monthly communication charges for the Premium Satellite Field Stations.
WEB SERVER 640-6030-105	Websserver charges include access to the site and current data, storage or historical dataq and alarm services.